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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

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ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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[2] The following is a Table of Contents to assist review of the present application:

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[3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.

15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door

20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own

25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics

30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkininstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, 5 gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are 10 classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. 15 The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to 20 the transduction and amplification of the original extracellular signal. Baldwin, J.M., Curr. Opin. Cell Biol. 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis 25 pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., Nature 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in 30 human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., FASEB J., 9:745-754 (1995); Arvanitakis et al., Nature, 385:347-350 (1997); Murphy, Annu. Rev. Immunol. 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661
5 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

- [20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
- 10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
- 15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8)
- 20 tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

- [22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
- 25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

- 30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their
5 teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for
20 millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to
25 certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of
30 the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
30 183, 185, 187, 189, 191, 192, 194, 200, 202, 206, 208, 214, 216, 218, 228, 236, 238, 240, 248, 250, 264, 295, 299, 301, 305, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 347, 349, 351, 361, 365, 367, 369, 371, 377, 379, 385, 387, 389, 391, 397,

423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. See, e.g., Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, e.g., covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "**nonconservative**" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "**Antagonist**" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] **"Biologically active" or "biologically functional,"** when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] **"Annotation"** refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] **"BLAST"** refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] **"BLASTP"** refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] **"BLASTX"** refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] **"Buffer"** refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] **"CDS"** refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] **"Clone"** in molecular biology refers to a vector carrying an insert DNA sequence.

[59] **"Cloning"** in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (e.g., plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (e.g., a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

[67] "Conservative changes" to an amino acid sequence, see Analog.

[68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.

[69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.

[70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).

[71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.

[72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.

[73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.

[74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.

[75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] "Humanized antibody" refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] "Identity," see Homology.

[84] "Immunocytochemistry" refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] "Immunohistochemistry" refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] "Immunolocalization" refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] "Immunologically active" refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

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cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (e.g., in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (e.g., the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] "Oligonucleotide" refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] "Operably linked" or "operably connected" indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] "Orphan receptor" refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] "PCR" or "polymerase chain reaction" refers to an *in vitro* method that uses oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] "Plasmids" refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will be apparent to the ordinarily skilled artisan in view of the present application.

[107] "Polynucleotide encoding a polypeptide" indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

5 [108] "Portion" or "fragment" with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the
10 amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

15 [109] "P-value" is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] "Receptor" refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect
20 that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

25 [111] "Recombinant" refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic
30 oligonucleotide process.

[112] "Sample" is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

10

C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (i.e., peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (*e.g.*, fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- [136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 [139] **SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 [141] **LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. See U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] **ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):**

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] **IMMUNOFLUORESCENCE ASSAY:**

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, 5 the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are 10 the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one 15 end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or 25 the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to 30 screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., Semin. Cancer Biol., 1(3):217-225 (1990); Beck et al., Semin. Cancer Biol., 1(3):181-188 (1990); Niman, Immunol. Ser., 53:189-204 (1990); Endo, Nippon Igaku Hoshasen Gakkai Zasshi (Japan), 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, 5 epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic 10 peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or 30 soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N -dioctadecyl- N',N' -bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

[180] Monoclonal antibodies are obtained from a population of substantially
5 homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are
identical except for possible naturally occurring mutations that may be present in minor
amounts. For example, monoclonal antibodies can be made using the hybridoma method first
described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant
DNA methods, or otherwise as desired.

10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a
hamster, is immunized as described herein to elicit lymphocytes that produce or are capable
of producing antibodies that will bind specifically to the antigenic peptide used for
immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then
are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103,
Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture
medium that preferably contains one or more substances that inhibit the growth or survival of
the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture
medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine
(HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level
production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived
from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell
Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type
Culture Collection, Rockville, MD USA. Human myeloma and mouse-human
heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody
Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or
5 enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole,
10 preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may
15 be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (e.g., by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli*
20 cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

30 [188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 V_{HA} , V_{HB} , V_{HC} , V_{HD} , C_{H1} , V_L , and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeyen et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] BISPECIFIC ANTIBODIES GENERALLY:

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

[214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

[218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using
10 chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is
15 then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

[219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992)
20 describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers
25 (Suppl.) 7:45-50 (1992).

[220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are
30 linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] **ANTIBODY PURIFICATION GENERALLY:**

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., *Bio/Technology* 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] **BEFORE LPHIC:**

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., *J. Immunol. Meth.* 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., *E.M.B.O. J.*, 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. See US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (e.g., less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (e.g., cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (e.g., alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (e.g., a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (e.g., less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, 5 two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. 10 Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, 15 osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne 20 muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, 25 Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, 30 chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (e.g., a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 Nature, 144:945 (1962); David et al., Biochemistry, 13:1014 (1974); Pain et al., J. Immunol. Meth. 40:219 (1981); and, Nygren, J. Histochem. and Cytochem. 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, Monoclonal Antibodies: A Manual of Techniques, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (e.g., to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (e.g., a tumor), for treating infectious
5 diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol,
10 A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic
15 polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in
25 macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or
30 following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

5 **[257]** The route of antibody administration is in accord with known methods, *e.g.*, injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-POLYMERS:
20

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 µg/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.
10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of
5 antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO® TBST (Tris Buffered Saline Containing
10 Tween-S3306), 10X Concentrate, DAKO® Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO® TBS (Tris Buffered Saline-S1968), and DAKO Tween® (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO® TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c)
15 replace lid and shake 10 to 20 times, d) pour diluted DAKO® TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO® Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to
20 10L mark with deionized H₂O, b) add 2 envelopes of DAKO® TBS, c) add 5 ml of DAKO TWEEN®, and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

25 [284] Solutions for antibody detection are prepared using Vector® Biotinylated antibody (BA series), Vectastain® ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector® Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10
30 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

15	Xylene 5 Minutes
	Xylene 5 Minutes
	Xylene 5 Minutes
	100% Alcohol 2 Minutes
	100% Alcohol 2 Minutes
	100% Alcohol 1 Minute
20	95% Alcohol 2 Minutes
	95% Alcohol 2 Minutes
	70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide
15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679,
20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086,
25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide
 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563,
 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009,
 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

- a) an isolated antibody according to any one of claims 7-14, and

b) at least one of a reagent or a device for detecting the antibody.

16. An assay for the detection of a particular GPCR in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 1-5,

b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.

10 17. The assay of claim 16 further comprising the step of binding the isolated
antigenic peptide or the antibody to a solid substrate.

18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.

19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.

15 20. The assay of any one of claims 15-19 wherein the assay is selected from the
group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.

21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.

22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.

23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.

24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.

30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

31. The method of any one of claims 27-30 wherein the method further comprises:

c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

38. The method of any one of claims 27-36 wherein the antigenic peptide has a
10 length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

41. The method of any one of claims 27-40 wherein the polypeptide is a human
15 protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

46. An isolated antigenic peptide comprising a short antigenic amino acid
25 sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim
30 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and

b) at least one of a reagent or a device for detecting the antibodies.

49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.

50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.

51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.

52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.

53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.

54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.

55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:

a) an isolated antibody according to any one of claims 49-53, and

b) at least one of a reagent or a device for detecting the antibody.

56. An assay for the detection of a candidate polypeptide in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 43-47,

b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Latrophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLR CPGSDVIMIE SANYGRITDDK ICDAADPFQME NTD CYLPDAF KIMTQRCNNR TQCIVVTGSD VFDPDPCGT YKLEVQYECV PYFVCPGTL KAIVDSPCIY EAEQKAGAWC KDPLQAADKI YFMPWTPYRT DTLIEYASLE DFQNSRQTTT YKLPNRVDGT GFVYVDGAVF FNKERTNRIV KFDLRTRIKS GEAINYANY HDTSPYRWGG KTDIDLAVDE NGLWVYATE QNNGMVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVRSVYQD NESETGKNSI DYTYNTRLNR GEYVDVPPFN QYQYIAA VDY NPRDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSITSQKQPM STTVAGSQEG SKGTKPPAV STTKPIPTN IFPLPERFCE ALDSKGIKWP QTQRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVEAGDVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIJVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KL VFIYRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RVYLTDPVLF TLPHIDPDNY FNANCSFWNY SERITMMGYWS TOGCKLVDTN KTRITCACSH LTNFAILMAH REIAYKDGVBH ELLTVITWV GIVISLVCLA ICIFTFCFR GLQSDRNTIH KNLCLNFIA EFILIGIDK TKYAIACPIF AGLLHFFLA AFAWMCLEGV QLYLMLVEVF ESEYSRKKYY YVAGYLPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTIFIL LNIIFLVTIL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEETI VMAYLFTIFN AFQGVFIF HCALQKKVRK EYKCFRHSY CCGGLPTESP HSSVKASTTR TSARYSSGTQ SRIRRMWNTD VRKQSESSFI SGDNSTSTL NQGHSLNNAR DTSAMDITLPL NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMISE LVHNNLRGSS KTHNLELTL VPVIGSSS EDDAIVADAS SLMHSNDNPGLELHKELEAP LIPQRTHSL YQPKKVKSE GTDSYVSQLT AEAEDHLQSP NRDSL YTSMP NLRDSPYSPES SPDMEEDLSP SRRSENEIY YKSMNPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcggctcgg gagacagcga gccagagctc ggggctgtt gcgagagcca cggcgggggc tggggcgagc gggcgggcag gctgaaggct gcgctcgcga acctgaaga gccgctgcga agccggcctg agccggcga gagcgggggc tgcctcgcg cgtccataga gcggcccccgc ccgctcgcgc gggccggccc ggcctccctgc gcgctcgcgc cggcgggggc acalcggagc gcccgcgcgc gcagcgggaa gggcgaaact ccggagcgcc gcgctccctgc ccgagggccc cggcgggggc gcggcggggc gcagcggagc accgcggagg aagagacccc cgcaccagcc cgcagggccc cggcgggggc gcggcggggc gcggcggggc gcagcggagc gagcagcgcgc gcgggagagc ccggcgcgggc agggcggggc agcaatggcc gggcgggcag ggcgctcgc ctcctcgcgc ctggggcgcgc tgggctcgcgc cggggccagc gggcggggcgc cgcctcgcgc gcggcgccc tgcagctgcgc acggcgagccg tcgggtggac tgcctcggga agggcgtag gggcgggccc gggggctcga gcgctcac ccaagcgcgc gatacagta tgaacaacat tactcagtg cagaagagc catttaagaa cttctctt ctaagaagc tacaatggc gggcaacgac cttcttita tcaccccaaa ggcctcgtc ggggtgaaa aactcaaaat tcaacgctc cagaataac agtgaaaaac agtiaccagc gaagccattc gaggggctgag tgcctgcag tcttgcgt tagalggcaa ccatallacc tcatccccc aggcaggtt tgaaggactt</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490	<p>SLMHSNDNPGLELHKELEAP LIPQRTHSL YQPKKVKSE GTDSYVSQLT AEAEDHLQSP NRDSL YTSMP NLRDSPYSPES SPDMEEDLSP SRRSENEIY YKSMNPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcggctcgg gagacagcga gccagagctc ggggctgtt gcgagagcca cggcgggggc tggggcgagc gggcgggcag gctgaaggct gcgctcgcga acctgaaga gccgctgcga agccggcctg agccggcga gagcgggggc tgcctcgcg cgtccataga gcggcccccgc ccgctcgcgc gggccggccc ggcctccctgc gcgctcgcgc cggcgggggc acalcggagc gcccgcgcgc gcagcgggaa gggcgaaact ccggagcgcc gcgctccctgc ccgagggccc cggcgggggc gcggcggggc gcagcggagc accgcggagg aagagacccc cgcaccagcc cgcagggccc cggcgggggc gcggcggggc gcggcggggc gcagcggagc gagcagcgcgc gcgggagagc ccggcgcgggc agggcggggc agcaatggcc gggcgggcag ggcgctcgc ctcctcgcgc ctggggcgcgc tgggctcgcgc cggggccagc gggcggggcgc cgcctcgcgc gcggcgccc tgcagctgcgc acggcgagccg tcgggtggac tgcctcggga agggcgtag gggcgggccc gggggctcga gcgctcac ccaagcgcgc gatacagta tgaacaacat tactcagtg cagaagagc catttaagaa cttctctt ctaagaagc tacaatggc gggcaacgac cttcttita tcaccccaaa ggcctcgtc ggggtgaaa aactcaaaat tcaacgctc cagaataac agtgaaaaac agtiaccagc gaagccattc gaggggctgag tgcctgcag tcttgcgt tagalggcaa ccatallacc tcatccccc aggcaggtt tgaaggactt</p>	A	Homo sapiens

gttacgltac gggatctgtg gcttggatgac aacagcttga cggaggggtgccc tggaccccc ctacgcaalc tggccacct
 acagggcgtg accctggctc tcaacagat ctcaaggatc ccttggatg ctlttaccac cctttcaagc ctgggtatg tgcaltca
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 calagaagggt aatattctg atcaccctt ttttggccat ttctacagg taaagccca tcataggat tcatgttaac gttatgtctia
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 actgcaatc ctatagccc gaaataatg agttctgtia ctctgtat ttttcatg cctgttggc tgaatccagt cctgtatgt
 ttttcaacc caaagttaaa agaaagctg aaattctga agggacgtgt laccaagaaa agttggatcag tttcagttc calcatgtac
 caaggtgtgt gtttggaa gttttctac taccgtgtgt gcatgtact acattgtcag ggcacacctga ctgttggga
 ctgtctgaa tggttctt taacaaagcc agttatcag aaacattga taaatcaca cagctgtctc gcatggggcag tggcttctg
 ccaagacct gagggtact gttccgactg tggcacacag tggggccact ctgtattatg agatgaaga gattccttg
 tctagacag ttttggacag gttcagggct gttggacggc ctgtcttctac cagagtagag gattccctt gtttggctat
 gtttcaalc taccagagt taaagactga actatgtgt gtttggatc tttccctggc aaocaaalc agttttata gaggaaaccc
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 gttatttca agaaacaggt gttttaaata taaattgtgt aaaaatgcaa ttttggatc atgtatgalt ttttggaaac aaatataga
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 lacatagca tttattt atgtttcac tttccatct tgaataaga gaaatataa tttgttaa gcaattata aatclaaac
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 taattagac gaaaggggga gtaataaga caggaagtag ttaattat ttttagtga gtttgggtat ctgaacctg tgttataa
 tggaaattc calactt cccatactia ttttataa aagggtctt tcaatgtc agaggttga cttgtgttaa acaagataat

528	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	<p>atgttattaa taaaaataga agaagaaaga ataaagctta gtctgtgtc ttataaait aaaaatttta ctgatcc accatgggc tttagacct taciagggtg gagcttaaa gttataattg ttcaatagt tttagaaca gtgtgctaaa tcaatagcaa accacagcc atattagta tictgaalat actaaaaaa tccagctaga tgcagttta ataatzaac tgiacatac gtcataataa tgaatttta tcttatgtaa atatttta gaacacaagt tgggaatgt ggcttcgtt cattcgtt aataaagct accctctaaa ctatagggc tgcagtagc agactgttaa attggtgtt atatacttt tgcattgtaa atagcttgg tgcatactg tcaagtat aaaaacagaa tcttgata tcaaatcat tagtttgtg taaagtgg gaagattta ttacagttt tgaatait tgaaggcca actattaca agtttataa atgtatca tgalattta cacatctat aaataataa tcaatactg tgaagaaact cctaataaa aggttttuc caaaatcag gttatgaaa attttcatt ttatcatt aaaaactaga ataacagata tataaagtg ttaactttg tgcataagg tatgaatac aatatgtac tcaagtgtt gaattataa agtttataa aagcaaaaa a</p>	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	<p>MPGPLGLLCF LALGLGSAG PSGAAPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLSFIHPKA LSGLKELKVL TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSPEDSFE GLVQLRHLWL DDNSLTVPV HPLSNLPTLQ ALTLALNKHIS SIPDFAFTNL SSLVVLHLHN NKIRLSQHC FDGLDNLETL DLSYNNLGEF PQAIRPSSL KELGFHSNSI SVIPDGAFDG NPLLRTHLY DNPLSFVGN SASHNLSDLHS LVRGASMVQ QFPNL TGTVH LESLTLTGK ISSIPNNLCQ EQKMLRLDL SYNINRDLPS FNGCHALEEI SLQRNQIYQI KEGTFQGLIS LRILDLRNL IHEHSRAFA TLGPITNLDV SFNELTSFT EGPNGLNQK LVGNFKLKEA LAAKDFVNLRL SLSVPYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANTSTL ENEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIL VALFFNLLV LTTFASCTSL PSSKLFIGLI SVSNLFMGIY TGILTFLDV SWGRFAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSFA LGATVAGCFP LFRGEYSAS PLCLPFTGE TPSLFTVTL VLLNSLAFLL MAVTYTKLYC NLEKEDLSEN SQSSMKHVA WLIFTNCEFF CPVAFFSFAP LITAISPE IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKSQSVSVSI SSQGGCLEQD FYYDCGMYSH LQGNLTVDCD CESFLLTKPV SKHLIKSHS CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPVK D</p> <p>aacttgaaag gacgcgtct gcccaccag aacacctct caagcactt gagtgcacac ggcttgcaag ctggtggctg gcccccgag tccgggctc tgaagcacag ccgtcgcactt aagcgttga tctgttacc tggagacct ctgagctc accgtact tctgcgctg ctctgcaca gagccgggc gaggaacct ccaggatga ggtcccgaa acgaccggcc cggacaacgc gacgtgcag atgtgcga acccgccat cgcgtggcc ctgcgcgtgg tgaactgct gggtggcggc gtcagcatcc cgggcaacct ctctctctg tgggtgctgt gcccggcat gggtggccaga tcccgctgg tcatctcat gataacctg agcgtacag acctatgtt ggccaagctg ttgccttc aaatacta ccatgcaac cgcaccact gggtattcgg gggtcgtct tgaacgtgg tgaacgtgg ctttiacga aacatgtatt ccagcatct caccatgacc tgiatcagcg tggagcgtt ccttgggggic ctglaaccg tcaagctcaa ggcgtggcg cgcgtgctt acgctggggc cgcgtgga gggagacctgg tgcgtctct gaccgcctg tcccgctgg cgcgcaccga tctacclac ccgggacag ccttgggcat catcacctg ttcagctcc tcaagtggac gtagtcccc agcgtggcca tgggtggccgt gttctcttc accatctca tctgtgtt cctacccg ttgtgata ccgtggctg ttacagggc accatctca agctgttgcg cagggaggag gcgcacagcc gggagagcagc gtagggcgcgc gtagggcgcgc ctggcggcgc ttgtcagcc</p>	A	Homo sapiens

530	160435	LS160435 Receptor	LR80		<p>gcttcgcccc caacaattc gtgtctctgg cgcacatcgt agagccgcctg ttctacggca agagctacta ccacgtgtac aagctcacgc tgtgtctcag ctgcctcaac aactgtctgg acccgltgt ttactattt gctgcocggg aattccagct ggccttgagg gaatattgg gctgcocggc ggtgcocaga gacacctgg acacgcgcgc cgaagcgcctc ttctcccca ggaaccagc cgtgtcctcc gagcccggtg cgcacctga agggatggag gggacacca ggcocggccti ccaggggcag gtaggtgtgt tctggtccc gggggcgcag ctggagagc cgggggcgcga gcttggagga tccagggggcg catggagagg ccacgggtgccc agaggttcag ggaacaacag tgcgtgtc ccaggcactg cagaggcccg ggggggaaag gtcocaggc ttatctcc ccaggcactg cagaggcacc ggtgaggaa ggtctccagg ctacactcag ggtgagaa caagcaaac ccagcagcgc acagggtgt tttatctc cagagggtgc ctctgctct ctgtgtcagg ggcaggtctg tgcaccag ccggctaat ttgtattt tttttag agcttggtctg tcccccg gctcttaga cactctac accgtccat acccgaggat ggalatcaa ccagccccac cgcctacccg actcgggttc tggatalct ctgtgggcga actgcgagcc cactccag ctctctcc tgcgtacalc gtccttagc acactgtcc ataccggag atggatatic aaccagcccc accgctacc cgcctgggt tctggatc ctcttgggc gaactgcgag cccattccc agctcttc ctgtcgcga tegtccctta gtgtgttc tggccttc cattctc cagggggtct ggtctcgta gcccggtgca cgcgaaat tctgttatt tcatcagg gacgtgtgt tgcgtgtgt ggaaattc ttacagg ggcctgggg cctcgcag tcatctc tccgtccca ctccctca cacacacc ccccgtgc cgaattc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308		<p>MQVPNSTGPD NATLQMLRNP ALAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMNLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS LTMTCISVE RFLGVLPLS SKRWRRRYA VAACAGTWLL LLTALSPLAR TDLTPVHAL GIITCFDLK WTMLPSVAMW AVFLTFIL LFLPFVITV ACYTATILKL LRTEEAHGRE QRRRAVGLAA VLLAFVTCF APNFEVLLAH IVSRLFYGKS YYHVYKLTLC LSLNNCLDP FVYFASREF QLRRLREYLG RRVPRDILT RRESLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaattggcc aaagagctt algctctct gaagactgc agcaaggct gctgaggct acagaagata gccccaggt ttggaggtg ttggaatg gattcaga tgcactgac tgcactgaa tcttgctt alactiac agctacaa ccttgaggc ttgaaatt ttcttca ataggcag atcttact tcttcaaga tgcacacag tctgtctc tgcaggtt ataaagat ggagccatt acgtattt ttattgt ttctgtt ggaattat ggaattgt tgcacact gctttatc agaagaat gaatcacagg tgttgaga tctactaat taattgtt acagccgt tctgtctac tctggcata ccagtgaaaa ttgtgtga cttggtgt gaccttga agctgaagat altocagc caagtacag cctgctcat ctatcaat atgtattt caatctt cttagcatt gtcagatt accgtct tgcactgaca cagactgca agactacag aatacaaga ccgggtttg ccaaaatgat atcaacct ggttgctaa tggctctt talaagggt ccaaatatga tgaatccat caaagacalc aaggaaaa caaatgtgg ttgatggag tttaaaagg aatttgaag aaattggcat tgcagaca attcalatg ttagcataa tttaaat tctagccat catthaala tcaattgc ttgtaattc acagctctac agnaacaaag alaatgaaa ttaccaaal gtgaaaaagg ctctalcaa catacttia gtgaccacgg gctacatcat atgttgtt cttacaca ttgtccga cccgtalacc ctacagcaga cagaagcat aactgattg tcaaccagg ttactct caaagccaa tgcctcggc tgtgtgaa cgtgtgtt alctatct gtactac ctctcaaa cattcgtc aaagctact ggaactttg cctaccclaa agagaccaag gctcagaag aaaaataag atgtgaaat aatgcataa agacaggat ttgtgca ccaattcgg cctactgga ccalaaagt aattatgt ttgaagata aaaaaaaa aaaaaggcc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1		<p>MTNSSFFCPV YKDLPEFTYF FYL VFLVGII GSCFATWAFI QKNTNHRVCS IYLNLLTAD FLLTLALPVK IVVDLGVAPW KLIFHCQVT ACLTYNMYL SIIFLAFVSI DRCLQLTHSC KTYRQEPGF AKMISTVVWL MVLLIMVPNM MIPIKDIKEK</p>	P	Homo sapiens

Homolog (H963)

533	161024	Protein A	NM_019858	<p> SNVGCMEFKK EFGRNWHLLT NFICVAIFLN FSAILISNC LVIRQLYRNK DNENYPNVKK ALINILLVTT GYICFVPHY IVRIPYTLQ TEVITDCSTR ISLFKAKEAT LLLA VSNLCF DPILYYHLSK AFRSKVTEIF ASPKETKAQK EKLRCENNA ggagggagggag ggccggggcgag ctggagccgg gagccagcgg gagcccgctc ggagagtcgg tccatlggc agtgtctgggc gcagccggag agagccctgc caggggggcctg agccccaccc ccaaatccct ggaggcalca gaagattct gactgttcaa gaaccagagg caaagaagagac ctggagaatcc cagcatgggg accagaaccc cccagccagc ctcatagttg ggnaagtagc cagcttgctt gcccacaa ttgcagggaat gcttaaggaa ggccccccc agtatgaag ctagggattg ctctgtctga cctcagctt cctccctgc cctctacac tgcctcagc tgggttcacat atgcaatgct gagcacgggg gtgagccctgg ggggcagcctg cctgtctgaca ggagccgaggaat tgtgggggac atgggagagt ttggagtggg ggctcctggg tggagacctag ccccccccc cacagagctc aaagggggggggg gggggctgaggg ataggatggc tggggggcgggg gcccggggcag aggagggcctc cctgcctcc aacgcatgt cctggctgggc ctggggggcctc ctggggcctgc tggccaalg ctagatcalt ctcagcatct cggccaagca gcaagaagcac aagccacagg agctgtctgt cgtttccta gcccgaalg ctagatcalt ggcagctgtg cccacacca cctttccgt gggtgcagctg cgtcgtcagg ctctccga ctatgactgg aacgagagta tctgcaaggt ctctgtgtcc acctacta cctggcgct ggccacctgc ttacaggctg cctccctc ctacatcgc atggggatgg tgcctgggccc ggtcaactac cgtctcagca acgccaagaa gcaaggacatg calgcccgtca tgggcatctg gatggcagc ttacctct ccacatgccc ctcattggc tggcacacaa acggcgagctg ctactatgcc cggcggtctgccc agttcatagt ctccaagatc ggccctggct ttggcggttg cttagcctc ttgctacttg gggggaatgt catgggtctg gctgtgtgg ccatcactt ctacagaca ctgtggggccc ggccccggag ggctcggcag ggccccggag tgggggggggg tggggggggac aaagcgggggg ggccaaggggc ctggggtaac cggccaagct ttggaggttac agccattgtg gttggagggatg cccgagggga ggcggggtcc tgcctggatg gctcggagtc tggccaagaca tccctcaggg taccacat gggtcagcgccc atcgtcttc tctatgact actcacaggg gttcccatct tgggtgtggg ctctctcc ctcaagtcgg actcggcgccc cctcggatg gtgtggctg tgtgtgtgtg ctccatggca cagacgtctg tgcgtccct ctactatgg tctgtcgagc gctacccggc cgacgtggc acagtgtggg agcaatggct ggccatcatg tctgagggag atgggagatga cga tggggggc tgtgacgact atgcaagggg ccgagtgtgc aaagtctgct ttgagctaa cggagggcaca ggaacaggga gccccggggccc cggccagggg aagctgtcgc ctgggaaggca catgtcttc cctctctg agagagttcca ctactacag gtcocccctat cccgggctct gtccatgat gagaacaa tctctctac cctcggggaa ccaaggctct tctgtcaca gttgtctatcc tctgagaca lccgggtctt cccagccag agccggggccc tgggggggtcc tctgagttac ctggggacaa gacacaggtt ggagggagcag gagggagcagg aagaggctga aggttgggggg ctggggcagg ttcggccaat ctggagaggt gggtgtctgg ggtagggggg gggaccccca cgggggtctg gcttctcc ggagggagat accactica tggalggag acccttgctt tctccgactg cctaccagg gcatctct cgtcggccc ggccactggg cctcacc cggccactt ccttgggtc ccttgggtc ccaagggtg agagccgtt gactcttt gggaactaag gcaaggagag gctgtcctt gacgggggggg gaaagaagt ccaagggtg ggggggatcc tggggggcag gcaacccat ctctccag ctgaccctgt gaggccagc aggtcctgt aactcaggg agaaagcctg agtgaagtaac acctattt ggccgagagt agggcagctg cctcagagt ctggggagag gggtcgtaga ttggggctc agaaaggcct gctctccc atccaagta ccaagtgccc tactcaggt ccatcacc tattaaggtc tgaaggttg ccatgg MARGGAGAE ASLRSNALSW LACGLLALLA NAWILSISA KQKHKPLEL LLCFLAGTHI LMAA VPLTTF A VVQLRRQAS SDYDWNESIC KVFVSTYTL ALATCFTVAS LSYHRMWMVR WPNYRLSNA KKQALHA VMG IWMVSVFILST LPSIGWHNG ERYARGCQF IVSKIGLFG VCFSLLLGG IVMGLVCVAI TFYQTLWARP RRARQARRVG GGGGTKAGGP GALGTRPAFE VPAIVVEDAR </p>	Homo sapiens
534	161024	Protein A	NP_062832.1	<p> MARGGAGAE ASLRSNALSW LACGLLALLA NAWILSISA KQKHKPLEL LLCFLAGTHI LMAA VPLTTF A VVQLRRQAS SDYDWNESIC KVFVSTYTL ALATCFTVAS LSYHRMWMVR WPNYRLSNA KKQALHA VMG IWMVSVFILST LPSIGWHNG ERYARGCQF IVSKIGLFG VCFSLLLGG IVMGLVCVAI TFYQTLWARP RRARQARRVG GGGGTKAGGP GALGTRPAFE VPAIVVEDAR </p>	Homo sapiens

535	161214	Galanin Receptor GalR3	NM_003614	A	Homo sapiens

Accession	Gene	Protein	NP	NC	Sequence	Species
538	Urotensin-II Receptor (GPR14)	G Protein-Coupled Receptor GPR66	NP_061822.1	NC_006056	<p>161221 ctagggctgc ttcttgccct tctggctgtg gcaagctgtc gccagtlacc accaggcccc gctggcgccg cggacggcgc gcacgtcaaa ctacttgacc acctgcctca cctacggcaa cagctgcgcc aacctcttc tctacagct gctaccagg aactaccgc accaccitgc cggccgcgtg cggggccccc gbagcggggg aggcgggggg cccgttccct cccgtcagcc ccgcgccgc ttccagcgt gttcggccg cctcgtct tcttcagc cacagccacc tgacagcttc gtctggccc cagcggccc ggccgacct gcgccagg gtcccagg cccggctga</p> <p>MALTPESPSS FPGLAATGSS VPEPPGGPNA TLNSSWASPT EPSSLEDLVA</p> <p>TGTIGTLLSA MGIVGVVGNNA YTLVVTCSRSL RAVASMYVYV VNLALADLLY</p> <p>LLSIPFIVAT YVTKEWHFVD VGCRLVFLGLD FLTMHASIFT LTVMSSERYA</p> <p>AVLRPLDTVQ RPKGYRKLAL LGTWLLALLL TLPVMLAMRL VRRGPKSLCL</p> <p>PAWGPRAHRA YLTLLFATSI AGPGLLIGLL YARLARAYRR SQRASFKRAR</p> <p>RPGARALRLV LGIVLLFWAC FLFPWLWQLL AQYHQAPLAP RTARIVNYLT</p> <p>TCLTYGNSCA NPFLYTLTTR NYRDHLRGRV RGPGGGGRG PVPSLQPRAR</p> <p>FQRCSGRSLS SCSPQPTDSL VLAPAAPARP APEGPRAPA</p> <p>atggctgtga atggcagctgc ggccaggggg cacttgacc ctgaggactt gaacctgact gacgaggcac tgagactcaa gtaccitggg cccagcaga cagactgtt catgcccatc tggcccatc acctgtgat cttcgtgtg ggcgtgttgg gcaatgggct gacctgtctg gtaacctgc gccacaaggc catgcccagc cctaccaact actacctt cagcttggcc gtctcgacc tgcctgtct gctgttggg cgtcccttgg agctatga gattgtggac aactacctt tctcttggg cgttggggc tctattcc gcacgtact gttgagatg gtctgcctg cctcagctt caacgtcact gcccttgagcg tggaaagctta tgttgccgtg gtgcacacc tccaggccag gtccatgtgt acggggggcc atgtgcgccg agtcttggg ggcgttggg gtcttgcct cttcgtctcc ctgcccacaa ccaagcttga cggcatccgg cagcttgcagc tgccttgcgc gggcccagtg ccagactcag ctgttgcat gctgttccgc ccaggggccc tctacaacat ggtatgtcag accaccggc tgccttctt ctgcctgcc atggccatca tgaagcgtgt ctacctgc atggggctgc gacttgcggc gtagagagcttg ctgctcagc aggaggccaa gggcaggggc tctgcagcag ccaggctcag atacacctgc aggtccagc agcacgatcg gggccggaga caagtgacca aagtgctgt tgcctgttc gttgtgttg gcatctgtc gggcccgctt caccgcgacc ggcgtcagtg gtaggtcgtg tcacagtggc gcaatggcct gcaacctggc ttccagcagc tgcacgtcat ctccggcatc ttcttacc tgggctcggc ggccaaccc gtgtctata gccitcagc cagccgttc cgaagagacct tccaggaggc ccgtgtccitc ggggccttgc gccatgcct cagacccgc cagacttccc acagctcag caggatgacc acaggcagca cccgtgtga tggggcttc ctgggcagct gggtccacc cctggcggg aacgatggcc cagaggcgca gcaagagacc gatcatct ga</p> <p>MACNGSAARG HFDPEDNLNT DEALRLKYLQ PQQTFLFMPI CATYLLIFV</p> <p>GAVNGNLTCL VILRHKAMRT PTNYYLFSLA VSDLLVLLVG LPLELYEMWH</p> <p>NYPFLGVGG CYFRILLFEM VCLASVLNVT ALSVERYVAV VHPLQARSMV</p> <p>TRAHVRRLVG AVWGLAMLCS LPNTSLHGIR QLHVPCRGPV PDSAVCMLVR</p> <p>PRALYNMVVQ TTALLFFCLP MAIMSVLYLL IGLRLRRLRL LLMQEAHGRG</p> <p>SAAARSRYTC RLQQHDRGRR QVTKMLFVL VVFICWAPF HADRVMWSVV</p> <p>SQWTDGLHLA FQHVHVISGI FFYLGSANP VLYSLMSSRF RETFQEALCL</p> <p>GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQOET DPS</p> <p>atggctaac ttgacaata cactgaaca tcaagatgg gtagcaacag taacagact gctgagatti actgaalgt cactaatgt aaatttcaat actccctta tgaacacc talactcta talacttcc tggcttctg gctaacagtg cagcttctg ggttctgtgc cgtctatca gcaagaaaaa taagccatc attttatga tcaacctc tgtggctgac ctgtcatalg talatctt</p>	Homo sapiens
539	G Protein-Coupled Receptor GPR66	G Protein-Coupled Receptor GPR66	NP_006047.1	NM_014499	<p>161249</p>	Homo sapiens
540	G Protein-Coupled Receptor GPR66	G Protein-Coupled Receptor GPR66	NP_006047.1	NM_014499	<p>161249</p>	Homo sapiens
541	Purinergic Receptor P2Y10	Purinergic Receptor P2Y10	NP_006047.1	NM_014499	<p>161251</p>	Homo sapiens

542	161251	Purinergic Receptor P2Y10	NP_055314.1	<p>accctccgg attactatt acatcagcca ccactggcct ttccagagag ccttttgcgt gctctgctt tacttgaagt atctcaat gtatgcagc atttcttc tgacgtgcat cagtctcaaa aggttgcttt ttctctcaa gcccttcagg gccagagact ggaaagcgtag gtacgatg ggcacatg ctcgcatctg gatcgctg gggactgct gttgcatc ttccatctg agaagcacag acttaacaa caacaagtc tctttgctg atctggata caagcaaatg aatgagctg cgttgctgg gatgataa gtgtctgagc ttgcaagat ttgtatcca gtatcatca tgcagtggt tacttgaaa actactat ctttgagaca gccaccaag gcttccaag ggatcagtga gaggcagaaa gcactgcgga tgggttcat gtgtctgca gtcttctca tctgtcac tccatcatc attaatia tttttacc catggtaaa gaaacatca ttgacgtg tccgtgtg cgaatgcac tgaattcca ccttttgc cttgtgctg caagtctg ctcgcttt gatcaatc ttattact tatggttca gagtctg accaatc ccgcatggc agttctgta ccgtcccg cctatgagc aaggagtg gtatcaat gattgctaa</p>	P	Homo sapiens
543	161293	G Protein- Coupled Receptor Lsl161293 [Herpes virus]	NP_042597.1	<p>MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YLIFIPGLL ANSAALWVLC RFISKKNKAI IFMNLVAD LAHVLSPLR IYYISHHWP FQRALCLLCF YLKYLNMVAS ICFLTCLSQ RCFFLLKPR ARDWKRRYDV GISAAIWVV GTACLPFPL RSIDLNNKS CFADLGKQK NAVAALVGMIT VAELAGFVP VIIAWCTWK TTISLRQPPM AFQISERQK ALRMVFMCAA VFFICFTPYH INFIFTMVK ETIISCPV RIALYHPFC LCLASLCLL DPILYYFMAS EFRQLSRHG SSVTRSLMS KESGSSMIG</p>	P	Equine herpesviri s 2
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	<p>LYHFFHTYVA IYLCYIPFL SGDGEKEGP TRI gcgagaacc cgaatgacg cggccacggc ggtcccca cctgcgcgt cctgcggcg gcgttgggt ccggggcact gggtcgcc ccatggct cgcgcggc gaactgagc gctggccgg gctgggggg gcgcgcgcg gccgcgcga ggaaccigac ctcctccg gcccgagcc cgtcccgct cccggcccg tctggagcg cctgcgcg cccggccc gcgacccgt tctgcagcc gccctggcc gttggcctt ggtctctggc ctacggccc gttgtggcg tggcggtgct cggaaccc gttgtgact ggtctggtt ggccacaag cgaatgcgga cgttaccaa cctctctc gtagaactgg ccttcgca gccgcgca acgctgct caatctac tgcgcgtgc acggagagtg gtacttggc gccaactat gcccttca gaacttcc ccatcacc cgtgttgc cagcatctac tcatgacgg ccatgcgggt ggacagatc atggccatta ttgacccct gaagccagg cttcttgcca cggccaccg gatcgtcat ggaaagcatc ggatttggc atttactt gcatcttc agttctga ttcaaaatc aaagtalc cagcgctac tttgtctac gtgcagggc cagaagttc aagcaaat ttacgtacc acatgctg catctctg gttacttct tctttgct catatgggc atcaacta ccatgttg aatcacgct tggggagggg agatccagg agaacctgc gaacagtlacc agggagcagt gaaggccaag cggaaggttg taanaatgat gatcgtgt gttgtgact ttgcatctg cttgtgccc tatcatct acttactc caccggcalt tatcagcag tgaacagtg gaaatcacat cagcaggtct accitggcag ctttggctg gccatgagt cgacatgta caaccatc atctactgt gttgaataa gagatttct gctggctca agagggtct cgttgggtc ctttcc accgtccag ctacagag cttggagctc aagccaccg cttccacca atggacaga gagccctata cacagtgaca agaatggagt ccatgagcgt gttattcgac tccaacgag ggagacagtg caggttccagt caccagaa gaaggagcag cagagacgta</p>	A	Homo sapiens

ggctccatg tctgtcccg caggaaatcc aagtcacat ccaccacgc cagctctg agctctcc acatgtgggt
ggagaaagg tclgtatc tclgtgggt caaggccact gcagggcacc cttctcgt cactgtcgt gctctcact ctcgtgaagc
tgaaggacag ttlttagca gctacgcta caataagca gattggacat aaataaaca aaatactac taagataiga gctctcccc
caaaaaga acaaatgggt ctttaagagt atgcttga aacttaat tattaatg atacaaca aaataagat
ccgaagaaata ttataaagt gtccagtgt gcttttaa agtctactgt gcacatgt gacatgata tggtagtttt ttocaaaa
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caagttgt gattatct gtagtatgta aaaaatccat cttctgata tttgtccagta ttgtgaa ttataacca algtttat

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	<p>ttaataat taaaaatcat atgaaaaat</p> <p>MASPAAGNL SA WPGWGWPPPA ALRNL TSSPA PTASPSAPS WTPSPRPGPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIWIVLAHMR MRTVTNSFLV NLAFADAAMA ALNALVNFTY ALHGEWYFGA NYCRFQNFPP ITAVFASIYS MTAJA VDRYM AIDPLKPR L SATATRVIG SIWILAFLLA FPQCLYSKIK VMPGRTL CYV QWPEGSRQHF TYHMIIVLV YCFPLIMGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVVKNMIIIV VTFaicwLpy HIYFILTAIY QQLNRWKYIQ QVYLASFwLA MSSTMYNP II YCCLNKRFR A GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVV FDS NDGDSARSSH QKRGTTTRDVG SNVCSRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	NM_006639	<p>atggatgaag caggaaatct gacagtatct tctgccat gccalgacac tatgatgac ttcgcaatc aagtgatc cacttgatc tctatgatc ctgtgtagg cttcttgcc aatggcttg tgcctatgt cctcaaaaa accatcacaca agaagtcagc ctccaagta tacaatgaa attagcagc agcagatcia ctttgtgt gacacagcgc tctcgtgt gctctatgt ttcacaaagg catttggtc tttgtgact tcttgccg cctcagcacc tatgcttgt atgcaact ctattgtac atctcttia tgacagccat gactttt cggtgcatg caatgttt tccagtcag aacattaat tgggtacaca gaaaaagcc aggtttgtgt gtgtaggat tggatttt gtgatttga ccaatctcc atttcaatg gcaaaaccac aaaaagatga gaaaaataat accaagtgct ttgagccccc acaagacaat caaaciaaaa aatcattttt ggtctgcat tatgtgtat taigtgtat cttttgtat ttaaatgt ctgtacaca atgacattt tgaccttact aaaaaataca atgaaaaaaa atctgtcag tcaataaaag gctataggaa tgcattggt cgtgacccgt gctttttat gcatatcat atcaacgt ccaatcact tcaatttta caaatgaaa ctacaacctg tgatctgt cttagaagc agaagtcctt gggtacaaac ttgtcttgg ctgacacca ttgtgttt gacotctcc tatattct ttctgggggt aactttagga aaggtctgt tacttcaga aagcattct tctccagcgt gactatgta cccagaaaaa aggcctctt gccagaaaaa ggagagaaaa tatgtaagt atag</p>	A	Homo sapiens
547	177168	Cysteinyl Leukotriene CYSLT1 Receptor	NP_006630.1	<p>MDETGNLTVS SATCHDTIDD FRNQVYSTLY SMISVVGFPG NGFVLYVLK TYHKKSATQV YMINLA VADL LCVCITLPLR VYVYHKGIWL FGDFLCRLST YALYVNL YCS IFFMTAMSF RCIAIVFPVQ NINLVTKKA RFVCVGIWF VIL TSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVLVLH VVSLFVGFII PFVIIVCYT MIL TLLKKS MKKNLSSHKK AIGMIMVUTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCCF DPLLYFFSGG NFRKRLSTFR KHSLSSTVTV PRKKASLPEK GEEICKV</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232	<p>ccacgcgtc gccgcgtgca cgttcgacc ggacgcggct caggctccgg ctctctccc gctgcagcag ccgcgcgccc ggccccactg ggctcggatc cggccccggc cccctcggca ccgcctgtc tggccccggc cccggccccg cggaccatgc gctggggccc cccaggggaa acccgaccg gccaaaggcc cgcgaagacc aggtctccgg gccggggccc ctccggccc ccacgtctc ggccggccc ctgcctccg tccggagcc gctgagctt ggagcggccat ggagcggccg ccgcccagc ggccgctgaa cgtctggggg gctctggccc gcgatggccc ggccggcccggc ggggcgccgg gctctggcc agccggacc ggcggtctgg ccgcgtcat ggccgtctc atcggtgcca cgggtgctgg caacgcgcgt gcatgctcgt ccttcgggg cgactcgagc ctccgaccc agaacaact ctctcgtc aactcgcca tctcgacti cctcgtggc gctctcgca tccactgta tgaacctac gctctgacag gccgcgtggac ctggcccgg agctctcgca agctgtggct ggtagggag taactgctgt gacacctc tgccttaac atcggtctca tcaatgaa ccgtctcgt tgggtacacc ggaggtctc ataccggccc cagcaggggg acacggggc ggacatggcc agatgctc tgggtgggt gctggctc ctctgacg gaccagccat cctgagctgg gagtacctt ccggggggcag ctccatccc gagggggcact gctatggcga gttctctac</p>	A	Homo sapiens

[illegible]

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	P	Homo sapiens	<p>ggcccaaccg cctggggccc ttgccctct ggcttctcta ctgcctcccc gctcggcgc agttctcac ctggacgtt atgaacctt acattggcca ggtgggtgtc aaggccaagg lgaagcgtcg gccggagatg agccagagct tgcctgcgt cccgagggcc ttgtggggg cctgcgtct ctctctcg gtgaacgtcg tgtgtgtgt gctctccat cggcgcgac agccccggg cctgcgtt gtcgcgtcc tggtagcga ctccctgtc gtcacgtcg cgtcgtct tgcctcgtc ctgcctcg tggccagcgg gcgcccca ctgacata cctggaggcc aaggtagggc tgcagcagc atgcccagggt gctttggg tctcgggca gcatctca ggggttagg</p> <p>MESNLGLVP AAGLVPALPP AVTLGLTAAV TTYALLFFS VYAQLWLVL</p> <p>YGHKRLSYQT VFLALCLLWA ALRTTLFSFY FRDTPRANRL GPLPFWLLYC</p> <p>CPVCLQFFTL TLMNLYFAQV VFKAQVKRRP EMSRGLLA VR GAFVGASLLF</p> <p>LLVNVLCVAVL SHRRAQPWAL LLVRVLVSDS LFVICALSLA ACLCLVASGR</p> <p>PPLASTWRPR</p>
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	A	Homo sapiens	<p>cttcttaaa ttcttctta ggaigtctac ttctctcca caatgaatga ggtctactat gacaagcaca tggactttt tataatagg agcaacactg atactgtcga tgcattggaca ggaacaaagc ttgtgatgt ttgtgtgt gggacgttt tctccgtgt tattttt tctaatttc tggatcgc ggcagatgc aaaaacagaa aatttcatt cctcttacc tacctgttg ctaatttagc tctgcctgat ttctgcgt gaattgccia tgaattccgt atgttaaca caggccacgt ttcaaaaact ttgacigtca accgttgttt tctccgtcag gggctctgg acagtgcctt gactgcctc ctaccaact tgcctgttat cgcctgtggag aggcacatgt caatcagag gatcggggc catagcaacc tgaacaaaa gagggtgaca ctgtcattt tgcctgtc gggcaltgcc attttatgg gggcggtccc cacactgggc tggatggc tctgcaacat ctgcctcgc tctccctgg cccccattta cagcaggtgt taccttgtt tctggacagt gtccaaccic alggccttc tcatcattgt tgggtgtac ctgcggatct acgtgtact caagaggzaaa accaagctt tgcctcga tacaagtggg tccatagcc gccggaggag accatgaag ctaatgaaga cgggtgtatgac tgcitaggg gcgtttgg tatgtcggac ccggggcctg gtgtctgc gtcacctcc gtcgtgaacc ccatcacta ctctacaag gcgtgcagca tgtgaaaagg tggttctgc tgcctgcgt gtcacctcc tctctgacgg cctgaactgc aggcagtgtg gacgaagaca tgaatggcac catgaagaag atgattcgt gctcttca ggaagaacca gtagaggcgtc cctctgcac cccctccca gtcctcaga ggaatgacac aggcagccag tacaatagg atagtattag ccaagggtgca gctcgtcaata aagcacctc claaactcg gatgcctc ggccaccaca ggtgatgact gcttagg</p> <p>MNECHYDKHM DFFYNRSNID TVDDWTGTLK VVLCVGTFF CLIFFFSNSL</p> <p>VIAA VIKNRK FHPFYLLA NLAADFFAG IAYVLFMFT GPVSKTLTVN</p> <p>RWFLRQGLLD SSLTASLTNL L VIA VERHMS IMRM RVHSNL TKKRVTLLIL</p> <p>L VWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRYLVF WTVSNLMAFL</p> <p>IMVAVYLRJ VYVVKRKTNL SPHTSGSISR RRTPMKLMKT VMTVLGAFV</p> <p>CWTPGLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM</p> <p>YGTMKKMICC FSQENPERP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS</p>
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	P	Homo sapiens	<p>atgggcccc gcaaggcgt gctggcggtt ctctgttga tggatggc cgtggcgctg clatccaag cactgtgtt gctttgc gcctacagcg ctgagctcgc cactgagcc tccgtgtgaa tctgtctcg ggccacctgc tgcggcgcc ccttcacatg ccttcacgc tgcctgggtt gattgcgggg cgggacacct cggcgccgg cgtatgcca gtcattgtt tctggacac ctctgtcg lccaacggcg cgttggcgtt ggcggcgctg agcgagacc agtggcgtgg agtgggcttc ccactgcgt acccgggagc cctgcgaccg cgtatgccc gcttgcgtt gggcgtgtgccc tggggacagt cgttggcct ctaggcgtt gcatgtgtt gctcgtggct tggctacagc agcgccctcg cgtcgttct gctgcgtcgc ccggcccgagc ctgagcgtcc gcgttcgtca gcccttaccg ccacgtcca tgcctggggc ttctgtctgc cgttggcggt gctctgcctc acctgcctc aggtgcacgg ggtggcgacgc agacatggc agcgcatgga caccgtcac atgaaggcgc</p>
554	189873	G Protein-Coupled Receptor GPR78	AF411107	A	Homo sapiens	

555	189873	G Protein- Coupled Receptor GPR78	CAC34041.1	<p>tcgccgtgct cgcgcacctg caocccagtg tggggcacgg ctgcctalc cagcagaagc ggcgcgcga cgcgcgcacc aggaaagatg gcattgctat tgcgacctc ctactgct tggcccgta tgcctgacc aggcctggcgg agctcgtgccc cttcgtacc gtagacgcc agtggggcat cctcagcaag tgcctgacct acagaagcc ggtggccgac ccgttcacgt actctgct cgcgcggccg ttccccaag tctggccgg catgfgcac cggctgctga agagaacccc ggcocccagca tcacccatg acagctctt ggaatggcc ggcagtggtg accagtgct gaaagagaac ccgcgcgcag cgtccacca caacggctct gtagaacag agaalgatc cgcctgcag cagacacct ga MGPGEALLAG LLVMVLAVAL LSNALVLLCC AYSaelRTRA SGVLLVNLSL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGYs SAFASCSRLR PPEPRPRFA AFTATLHAVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTVT MKALALLADL HPSVRQRCLl QQKRRRHRAT RKIGIALATF LICFAPYVMT RLAEVPFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167	<p>atggaaaaac ttcaaalgc ttcttgatc taccagaga aactagaaga tcaattccag aaacacctga acagaccga ggagiatcig gcttccct ggcggacctg gcgcagccac ttctctcc ccgtgctg ggtgatgig ccaatttgg tgggggggt cattggcaat gcttgggtg gcttgggtg ttctgcagcac caggctatga agacgcccac caactactac cttctcagcc tggcggctc tgcctctg gcttgcctc ttggaatgc cctggaggtc taagagatg ggcgcaacta cctttctg ttcggcccg tgggtgctga ctcaagagc gctctttg agaccgtg ctgcctcc atctcagca tcacacogt cagcgtggag cgtctcaggg ccaactaca ccgttccgc gccaaactgc agagacccc ggcocggggc ctcaggatcc tcggcatcgt cgggggtc tccgtgct tctcctgccc caacacagc atcaatggca tcaatggca ctacttccc aalgggtccc tgggtccagg ttggccacc tgaagggtca tcaagcccat gtagatctac aatttca tccaggtcac ctctctca ttctacctc tcccatgac tgcctcagt gctcttact acctatgac actcagc actcagc actcagc aatcttga ggcagatga gggaalgcaa atattcaag accctgcaga aatcagcaga acaagatc gtttcttg gctatgctg ttgtalcig tggggcccg ttcacatg accgactct ctacgctt ggggagaggt ggagtgaac cctggctgct ggttcaacc tctccatg ggttcagggt gtctctct acctgagctc agctgcaac ccaatlatc alaaactat gctcgcgc ttccagcag cattccagaa tgtgatctct tcttccaca aacagtgga ctccagcat gaaccaggt tgcacatgc cgaagggaac atctctga cagaatgcca cttgggag ctgaccgaag atatggctc ccaattcca tgcagtcat ccaatgcaa ctctacatc ccaacggcc tctatga acaatgca agacaaact atcaagctt ccaatgaac aaaactga</p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1	<p>MEKLQNASWI YQKLEDPPQ KHLNSTEYL AFLCGPRRSH FFLPVSVVYV PIFVVGIGN VLVLVILQH QAMKTPNTY LFLSLAVSDLL VLLGLMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSITTVSVE RYVAILHPFR AKLQSTRRA LRILGIVWF SVLFLPNTS IHGKFHYFP NGSLVPGSAT CTVKKPMWY NFIIQVTSFL FYLLPMTVIS LYLYLMALRL KDKSLEADE GNANIQRPCR KSVNKMFLVL VLVFAICWAP FHIDRLFFSF VEEWSESAA VFNLVHVVSF VFFYLSSAVN PIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNSHL PTALSSEQMS RTNYQSFHN KT</p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108	<p>atctggcag ctccttgg agactiaac tccagcaga tgaatgctg ctttgctac ctccacttg ccggaggga cctggccctc gattccagg acttggaac catcaaccg gctcttgg tggctgctg cctgggggc ttctgggaa accgtggt</p>	A	Homo sapiens

Ls189884

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 cctgctgtt tctgaccata tccggagctac ggctgactcc aaaggtt ggagctagg ctgggttgc tgaagctct ctgactgggt
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 aacccagctc tccctctct ggcaaggaga aaactgagaa ggacagagat cccatcttc ctgacgtaga gcagtttgg
 catgagaggg acacagctcc tctgtacag gacaagacc ctatccctg ggaacatgaa gatacaga caggggaggg
 tgtzaatag

P Homo sapiens

P

559 189884 G Protein-Coupled Receptor Ls189884 ENSMPRT1140 67

560

G Protein-Coupled Receptor GPR61

NM_031936

A Homo sapiens

A

atggaagctt caccatccc ccagctacca gggaaactct ccaatttggg gagggtccct caaacccag gtcctctac
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 tgaactgtgt ggcctggcaat gcccgttga tggccgtgat cgccaagacg cctggccctc gaaaattgt ctgcttctc
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 tggtagcgc tactattac tagtccacc calgcgctac gagggtgcga tgaactgggg gctgggtggcc tctgtgctgg
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 gactggctgt cctctgagt cctgggttc ccagacctca cccagcccc agcaggagcc acctgctgt gacttggaa
 tccaggccag atag

561

189895 G Protein-

NP_114142.1

P Homo

P

MESSPIPQSS GNSSTLGRVP QTPGPSTASG VPEVGLRDVA SESVALFFML

	Coupled Receptor GPR61																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccaccgg gcagctggcc ccacggagc acggctcagc acgaggggg gcggcaccac ctccaggtag cgggtgagtg cgatggctg gaggaagaca acgcctggccg tgcgggtgtt ggacagcatg aagagggtga ctctgcaggc agcagcccca aagcgccagg tctcatggag gaggtagtag ccacgcgga ggggcagggt gctgaltcag aggaagttag cggccaccag gctgaccagg aacaccgtg tggaggtcca gggcgcggtg tggatgcaga agatgaagag ggccaactg tccccacca ggccaggac aaactccagg gccaggatg gtgccaggaa ggccagacac agcagaggag aggtgggggtg gcaggggccct ccaggagacc ccccccacgt ggtaaggc</p> <p>MELHNLSPSPSLSSSVLPP SFSPSPSSAP SAFTTVGGSS GPCCHPTSS LVSAFLAPIL P Homo sapiens</p> <p>ALEFVLGLVG NSLALFICI HTRPWTSTNV FLVSLVAADF LLSINLPLRV DYLLHETWR FGAAACKVNL FMLSTNRTAS VVFLTAIALN RYLKVVQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLLL STFGSPSCLS YRVGTKPSAS LRWHQALYLL EFFLPLALIL FAIVSIGLTI RNRGLGGQAG PQRAMRVLAM VVAVYTICFL PSIIFGMASM VAFWLSACRS LDLCQLFHG SLAFTYLSNV LDPVLYCFSS PNFLHQSRAL LGLTRGRQP VSESSYQPS RQWRYREASR KAEATGKLKV QGEVSLEKEG SSQK</p>	
566	189904	Purnergic Receptor P2U2 (GPR91)	NM_033050	<p>gggtatggt taactcagca gaattgttg aacaactacg acatgctggg gaicagcca tggaaigcaa ctgcaaaaa A Homo sapiens</p> <p>ctggcggca gcagaggctg cctggaaaaa gtaiaacct tccattttt algggatga gttgtgtg ggagtccttg gaaataccat tgtgtttac ggctacatct tctctcga gaactggaa agcaglaala ttatctct taactctct gtcctgact tagctttct gtgcacccct ccatgctga taaggagta tggcaatgga aactgatat atggagactg gctctgcata agcaacogat atgtgttca tggcaacct talaccagca ttctttct cactttatc agcatagatc galactgat aataagat ctctccgag aacacctct gcaaaagaaa gagtttgta tttaactc ctggccatt tgggttag taacctaga gttactiacc atactccc ttataatcc tgttataact gacaatggca ccactgtaa tgaattgca agttctggag acccaacta caaccatt tacagatgt gtctaacact gttgggggtc ctattctc tttttgtat gttgtttt lattacaga tigtctct cctaaagcag aggaataggc aggtgtctac tgcctgccc ctgaaaaag cctcaactt ggctcatg gcagtgtaa tctctctg gcttttaca cctatcag tcatgggaa tgtgaggatc gcttcagcc tggggagtgt gaagcagat cagtgacac aggtgtgt gcttttaca cctatcag tactatgta caggccctt ggctttctg aacagtgta tcaaccctg ctctattt ctgtggag atcactcag ggacatgctg atgaatcac tgagacaaa ctcaaatcc cttaactct tttagcagtg ggctcatgaa ctctactt cattcagaga aaagtggagg gcttgtaaa cagatgtgtc tacagatga tctgtaagcc agttacagtt tgccttaact catagacatc aatcagagag tgcacagat ttaacctga tctaaagaca agttgtacc agagtgtgt aaaaagatgg gacgacaaga atgtactgt tcttctct aagaatgaa aggagtga ctgcttag tttggcag taactcaaa alactaggta gtaaaagct tctcaalca gtcacaaaat ggaaatata, taagcaaca agttgtctg attgatcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNATCKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYFSLKN P Homo sapiens</p> <p>WNSSNYLNF LSVSDLAFLC TLPMLRSYA NGNWTYGDVL CINSRYVLHA NLYSILFLT FISIDRYLII KYPFREHLLQ KKEFAILSL AIWVLVLEL LPPLINPV ITDNGTTEND FASSGDPNYN LIYSMCLTL GFLPLFVVC FFYKIALFL KQRNRQVATA LPLEKPLNV IMAVVIFSL FPHYVMRNV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPV YELLGDHFRD MLMNQLRHNH KSLTSFSRWA HELLSFREK</p>	
567	189904	Purnergic Receptor P2U2 (GPR91)	NP_149039.1	<p>ggagccatg ctccctggc tcttcggcg ggcccgccg cgtcccttc gcttgaggca aaagactct tgggaagat A Homo sapiens</p> <p>ggaactcat gtccatttc cagaatgat ttcaagccc atcaatggga ccgatactg cgtctctg ttgaatgct tgaagaac ctgcatctct gctgcatct tccatctcat tgaaccatg gtctctcgg cagttgtgac tgcgttccat accgggacat ccaacaaac</p>	
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784		

beta)																																								
569	189920	G Protein- Coupled Receptor GPR63 (PSP24 beta)	NP_110411.1																																					
570	189945	G Protein- Coupled Receptor Dj287g14.2	AK027843																																					

gcctgggatt ttggagatc gtttttgc aacattgcc ttttcatgt ggtatgggic cagatctgtc gtagggaaagg caagagaagc
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ccttcaaca aagtggtatca ctacagacgt gcttccatgg acaagctctt gcaaaacag gccatgctgc atggagatca
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gtcagacacc ttacggcaca gcacaaagt ttatgtct taagaanaag aatacaatc gcagaaatgt gaagatttgc
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acaaggaggaga agcaatgtc aggaagacc tagatagagc tcatcttact ccactaatc gttatctc gttatccca ttttctgcat
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PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN
MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRRAQTFN NKTGLFQDVG
KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR
NTKVLTFISY IGCISAFS AATLLTYVAF EKLRDYPK ILNMLSTALL FLNLLFLLDG
WITSFNV DGL CIAVAVLLHF FLATFTWMG LEAHMYIAL VKVFNTYRR
YLKFCIGW GLPALVSVV LASRNNEVY GKESYGKEG DEFCWQDPV
IFYVTCAGYF GVMFFLNIA MFIVMVVQICG RNGKRSNRTL REEVLRLNLS
VVSLLTFLGM TWGFATWAG PLNPFMYLF SIFNSLQQLF IFIFHCAMKE
NVQKQWRRHL CCGRFR LADN SDWSKTATNI IKKSSDNLGK SLSSSSIGSN
STYLTSSKSKS SSTTYFKRNS HTDNVSYEHS FNKSGSLRQC FHGQVL VKTG PC
caccatagg caaagatag ttcttagag agaatacgc ctgtaata caggtgacc agggcagag gagacaatac
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P Homo sapiens

A Homo sapiens

571 189945 G Protein-Coupled Receptor Dj287g14.2 BAB55406

572 190026 G Protein-Coupled Receptor JEG18 NM_032553

573	190026	G Protein- Coupled Receptor JEG18	NP_115942.1	MPANYTCTRP DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFGYVME TKRAVFEMIN LAIADLLQVL SLPLRIFYYL NHDWFPGPGL CMFCFYLYYV NMYASIYFLV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLIICLACV LFPLLRISDD TSGNRKTCFV DLPTNRNVNLA QSVVMVTIGE LIGFVTPLLI VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MLTCAGVFL ICFAPYHFSF PLDFLVKSNE IKSLARRVI LFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD SIQLHAKSFV SNHTASTMTP ELC	P	Homo sapiens
574	190031	G Protein- Coupled Receptor VLGR1	AF055084	aatctcgctt ctgattgtcc tatattgtac ctggagagacg gttttatcac tgcagataa alalcccalg gcccaagalc ttggagagaa acagaaagcc ttgaaga tctaaacttg tgcaggggga ttactaat ttgttgcacc ttatcttcc agttttctt ttgatttctt ggtagagctcc aatgaataa aaagcttgct agccagaaggg gtagttctaa tatcttalc ttggcatgg ttgttgctga gtcigaaltc atgtcttgac ccagtcalt actactttc cactaaagag ttccgaagac gggtttcaat talgtataa caaaaaacca aactgaaltg tgcataatcc ttgttgata accatacgc ttccaccatg acactgaat talgtataa caaaaaacca aactgaaltg gacctgaat gcaatgacat ctagaactat ctagaactacc caagccacag ggaagaacti gcaaaacaac acagcttttc agttctgctc tatctactg ctatggggaa ttactttc caagcagga cctatttga gcattagat ccacgattat tgaattgac atgccaagt agtaatttt ctcaagt	A	Homo sapiens

575	190031	G Protein- Coupled Receptor VLGR1	AAD55586.1	ggaggactac acatggccta cagacacttc tggatgttgg ttcttttgtt catlttcaac agtcgtcagg gactttagt ttcatgggt tatltcattt tacacaacca aatgtgtgc cctatgaagg ccagttaac tgggaalg aatgggcatc cttggaccag cacagcctt ttacggccg ggatgggaat gccctctgtt ggaggggaaa tgcagcagc caccagaat cttatgggtg ctatggaggga gggtccactt gactggaga gagcatcctt ccaacaggc agtcaggcca gccctgattt aaagccaagt ccacaaatg gagccactt cccgtctt ggaggatg gccagggtc actgatgc gatgagggtt cccaggagt tcatgattt atatgtcat taaaacttgg tctgtctc agtcagtg ataatgaac tggcaggc agccaggagg ggaggcactt gactgacc cagatgttgg agtcaggag galaccalc gccgacact acccttagca cctcaciaac cattgacgt agcacactt catatttga tcatgtttg tctaaaact cttcagac atccactgt gtaataggaa cctgtgaat gttatggatg ataatacaa acgtgtgtt tttatggga gtaataata ctgattgtat gtgacctgaa aattcactgc talaagaaag gtggagcag ttgtatcag ttaataggat gttcatattc caaggatatt agttgtttt ttaatcacc tataatggc aatgtttt atgaagtaa taataataa agcaatagaa tct	P	Homo sapiens
				MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI IEFDPKYTAF EVEDVGLIM IPVVRLHGT YVVTADFISQ SSSASPGGVD YLHGSTVTF QHQNLFIN ISIDDNES FEEPIELLT GATGGAVLGR HL VSRHIAK SDSPGVIRF LNQKJIAN PNSTMILSLV LERTGGLLE IQVNWETVGP NSQEALLPN RDIADPVSL FYFGECEGV RTILTIYPH EEIEVEETFI IKLHL VKGEA KLDSRAKDV LTQEFQDPN GVVQFAPEIL SKKTYSEPLA LEGPLLTFF VRRVKGTFGE IMVYWELSE FDIETDFLST SGFTIADGE SEASFDVHLL PDEVPEIEED YVQLVSEV GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSLIGQNL RSIQINIR LAGTFGDVAV GLRISSDHE QPIVTENAE QLVKDGATY KVDVVPKIQ VFLSGSNFT LQLVTVMVG GRFYGMFTIL QEAKSAVLPV SEKAANSQVG FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTIGYAPG LEIPEFIVVG NMTPTLGLS FSHGEQRKV FLWTFSPGW PEAFVLHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQFST SRNIIVSED TQMRLHVQR LFGHSDLIK VSYQTTAGSA KPLEDFEPVQ NGELFFQKFQ TEVDFEITII NDQLSEIEEF FYNLTSVEI RGLQKFDVNW SPRLNLDPSV AVITLDNDD LAGMDISFPE TTVAVAVDTT LIPVETEST YLSTSKITTI LQPTNVVAJV TEATGVSAIP EKLVTLHGT AVSEKPDVAT VTANVSIHGT FSLGPSIVI EEMKNGTFN TAEVLIRRTG GFTGNVSITV KTFGERCAQM EPNALPRGI YGISNLWAV EEDFEEQTL TLFLDGERE RKVSQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLNHIIG FSEESQSGLE LREGAVMRRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL QKDGVNLMEE LQSVGTTTC TMGQTKCFIS IELKPEKVPQ VEVYFFVELY EATAGANN SARFAQIKL ESDQSLSVY FSVGSRLA VA HKKATLISLQ VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE PGQRSTVLDV ILTPETGSLN SFPRFQIVL FDPKGGARD KVVGTANIL VSDADSQAIW GLADQLHQPV NDDILNRVLH TISMVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTFN AFSLLTNVT GSPGEKSKTI LDSCPYLSIL ALHWYPQIN GHKFEKEDG YRIPERLLD VQDAEIMAGK STCKLVQFTE YSSQWFISG NNLPTLKNKV LSLSVKQSS QLLTNDNEVL YRIYAAEPRI IPQTSCLLW NQAAASWLSD SQFCKVIEET		

576	190168	G Protein- Coupled Receptor GPR58	NM_014626	ADYVEACSH MSVYA VYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMAASL GTQLFLASA YASPLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFNPVYA ALFTAALVPL TCLVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLVLFVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiatcat ttatggcagg atccatatc atcaaatat ttggcaatct tggcaatct cctactca ggcgtcac acaccaacca actccatcat cctctccatg gccatcacig attccictt gggatccacc atcagccat atagatgat cagatcggig gagaacigtct ggtatttgg gctiacaatt tgaagattt attagatt ttgaccigatg cttagcataa calccattt tcatcttgc tcagtgccca ttatagatt ttatgata ttgtaccat tactttatc caccataata actattccag tcaataaag attgctactt ctatgttgt cggctccctgg agcatctgoc ttggggcgg tctctcaga ggcctatgca gatggaatag agggctatga catcttgtt gcttgttcca gtctctgccc agtgaigtic aacaagctat gggggaccac ctgtttatg gcaggtttct tcatctcigg gtctatgat gtgggattt acggcaaaa ttitgcagta tccagaaaac atgctacatg calcaataac ttggcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgccc aaactttagga atagtgatag gagttttct attagtgtg ttcttgtt tcttcacaat ttatgtgat ccttttga acttctac tctgttgt ttgttgtatg cctgtacatg gttggctat tttaactcca calgtaatcc gttaalat gggtttctt atocctgtt tgcgagagca ctgaatga ttitgtagg taaatttct agctcatgt ttcaataatc tatttgtt atgcaaaaag aaagtgaatga g MYSFMA GSI F ITFNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFSLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYKJFV SRKHAINN LRENQNNQVK KDKKA AKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRR A LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtt ctittcatgt A ccaagtga atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatac gcatcctaaa cagcttcat cctccacaaa ctctctgac ctctccatgg caaccacgga ctctctcg gglttgica ttatgcala cagcalaatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatctt cccatctt cacctctgt ccatgtcat tgaccgatt tatggctgt gtacocctt acatacaca accaaaatga cgaactocac cataaagcaa ctgtggcat ttgtctggc agttctgt ctittttt ttgtttatg tctatctg gccgatgtt ccggtatgca gagctataag atactgtg ctgtctca ttctgtccc ctacttca acaaatctg ggggacataa ttgtctac calgtttt tacctctggc tccatctg ttgtttia tggcaaac ttatgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaagggg gcagtga aaa aacacctat caagaaaaag gacaggaaa cagcgaagac actgtgtata gtaatggggg tcttctggc ttgtgttg cctgttct gattgacca taccatg actccatcc catacataa ttggatctt tagtgtgct ccgttact aacttact gcaacctt taltcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc tccattcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens
577	190168	G Protein- Coupled Receptor GPR58	NP_055441.1	MYSEMGSI F ITFNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFSLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYKJFV SRKHAINN LRENQNNQVK KDKKA AKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRR A LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtt ctittcatgt A ccaagtga atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatac gcatcctaaa cagcttcat cctccacaaa ctctctgac ctctccatgg caaccacgga ctctctcg gglttgica ttatgcala cagcalaatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatctt cccatctt cacctctgt ccatgtcat tgaccgatt tatggctgt gtacocctt acatacaca accaaaatga cgaactocac cataaagcaa ctgtggcat ttgtctggc agttctgt ctittttt ttgtttatg tctatctg gccgatgtt ccggtatgca gagctataag atactgtg ctgtctca ttctgtccc ctacttca acaaatctg ggggacataa ttgtctac calgtttt tacctctggc tccatctg ttgtttia tggcaaac ttatgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaagggg gcagtga aaa aacacctat caagaaaaag gacaggaaa cagcgaagac actgtgtata gtaatggggg tcttctggc ttgtgttg cctgttct gattgacca taccatg actccatcc catacataa ttggatctt tagtgtgct ccgttact aacttact gcaacctt taltcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc tccattcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens
578	190170	G Protein- Coupled Receptor GPR57	NM_014627	ADYVEACSH MSVYA VYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMAASL GTQLFLASA YASPLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFNPVYA ALFTAALVPL TCLVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLVLFVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiatcat ttatggcagg atccatatc atcaaatat ttggcaatct tggcaatct cctactca ggcgtcac acaccaacca actccatcat cctctccatg gccatcacig attccictt gggatccacc atcagccat atagatgat cagatcggig gagaacigtct ggtatttgg gctiacaatt tgaagattt attagatt ttgaccigatg cttagcataa calccattt tcatcttgc tcagtgccca ttatagatt ttatgata ttgtaccat tactttatc caccataata actattccag tcaataaag attgctactt ctatgttgt cggctccctgg agcatctgoc ttggggcgg tctctcaga ggcctatgca gatggaatag agggctatga catcttgtt gcttgttcca gtctctgccc agtgaigtic aacaagctat gggggaccac ctgtttatg gcaggtttct tcatctcigg gtctatgat gtgggattt acggcaaaa ttitgcagta tccagaaaac atgctacatg calcaataac ttggcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgccc aaactttagga atagtgatag gagttttct attagtgtg ttcttgtt tcttcacaat ttatgtgat ccttttga acttctac tctgttgt ttgttgtatg cctgtacatg gttggctat tttaactcca calgtaatcc gttaalat gggtttctt atocctgtt tgcgagagca ctgaatga ttitgtagg taaatttct agctcatgt ttcaataatc tatttgtt atgcaaaaag aaagtgaatga g MYSFMA GSI F ITFNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFSLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYKJFV SRKHAINN LRENQNNQVK KDKKA AKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRR A LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtt ctittcatgt A ccaagtga atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatac gcatcctaaa cagcttcat cctccacaaa ctctctgac ctctccatgg caaccacgga ctctctcg gglttgica ttatgcala cagcalaatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatctt cccatctt cacctctgt ccatgtcat tgaccgatt tatggctgt gtacocctt acatacaca accaaaatga cgaactocac cataaagcaa ctgtggcat ttgtctggc agttctgt ctittttt ttgtttatg tctatctg gccgatgtt ccggtatgca gagctataag atactgtg ctgtctca ttctgtccc ctacttca acaaatctg ggggacataa ttgtctac calgtttt tacctctggc tccatctg ttgtttia tggcaaac ttatgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaagggg gcagtga aaa aacacctat caagaaaaag gacaggaaa cagcgaagac actgtgtata gtaatggggg tcttctggc ttgtgttg cctgttct gattgacca taccatg actccatcc catacataa ttggatctt tagtgtgct ccgttact aacttact gcaacctt taltcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc tccattcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens
579	190170	G Protein- Coupled Receptor	NP_055442.1	ADYVEACSH MSVYA VYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMAASL GTQLFLASA YASPLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFNPVYA ALFTAALVPL TCLVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLVLFVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGSLL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiatcat ttatggcagg atccatatc atcaaatat ttggcaatct tggcaatct cctactca ggcgtcac acaccaacca actccatcat cctctccatg gccatcacig attccictt gggatccacc atcagccat atagatgat cagatcggig gagaacigtct ggtatttgg gctiacaatt tgaagattt attagatt ttgaccigatg cttagcataa calccattt tcatcttgc tcagtgccca ttatagatt ttatgata ttgtaccat tactttatc caccataata actattccag tcaataaag attgctactt ctatgttgt cggctccctgg agcatctgoc ttggggcgg tctctcaga ggcctatgca gatggaatag agggctatga catcttgtt gcttgttcca gtctctgccc agtgaigtic aacaagctat gggggaccac ctgtttatg gcaggtttct tcatctcigg gtctatgat gtgggattt acggcaaaa ttitgcagta tccagaaaac atgctacatg calcaataac ttggcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgccc aaactttagga atagtgatag gagttttct attagtgtg ttcttgtt tcttcacaat ttatgtgat ccttttga acttctac tctgttgt ttgttgtatg cctgtacatg gttggctat tttaactcca calgtaatcc gttaalat gggtttctt atocctgtt tgcgagagca ctgaatga ttitgtagg taaatttct agctcatgt ttcaataatc tatttgtt atgcaaaaag aaagtgaatga g MYSFMA GSI F ITFNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P Homo ENCWYFGLTF CKIYYSFSLM LSITSIFHLC SVAIDRFYAI CYPLLYSTKI TIPVTKRLLL sapiens LCWSVPGAF AFGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSM VGIYKJFV SRKHAINN LRENQNNQVK KDKKA AKTLG IVGVFLLCW FPCFTILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFFYPWFRR A LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagacctc tccagtgtc caaaattgt aataagatc ctgtctccc accaacgtt ctittcatgt A ccaagtga atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatac gcatcctaaa cagcttcat cctccacaaa ctctctgac ctctccatgg caaccacgga ctctctcg gglttgica ttatgcala cagcalaatg cgatcagtg agagtctg gtacttggg gatggcttt glaaattcca caaagctt gacatgac tccatctt cccatctt cacctctgt ccatgtcat tgaccgatt tatggctgt gtacocctt acatacaca accaaaatga cgaactocac cataaagcaa ctgtggcat ttgtctggc agttctgt ctittttt ttgtttatg tctatctg gccgatgtt ccggtatgca gagctataag atactgtg ctgtctca ttctgtccc ctacttca acaaatctg ggggacataa ttgtctac calgtttt tacctctggc tccatctg ttgtttia tggcaaac ttatgtt ccaaacagca tctctgagtc atcagccatg tgcctgaaaa cacaagggg gcagtga aaa aacacctat caagaaaaag gacaggaaa cagcgaagac actgtgtata gtaatggggg tcttctggc ttgtgttg cctgttct gattgacca taccatg actccatcc catacataa ttggatctt tagtgtgct ccgttact aacttact gcaacctt taltcatggc tttttatc calgtttca gaaagcattc aagtacatag tgcaggaaa aatattagc tccattcag aaactgcaaa ttgtttct gaagcaatt aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG sapiens

GPR57

580

190188

**G Protein-
Coupled Receptor
LGR6**

AB049405

A Homo sapiens

DGFCCKFHTSF DMMLRLTSTF HLCSDIADRF YAVCYPLHYT TKMTNSTIKQ
LLAFCSWSPV A LFSFGLVLSE ADVSGMQSYK ILVACNFCA LTFNKFWGTI
LFTTCFFTPG SIMVGIYGKI FIVSKQHARV ISHPENTKG AVKHLKSKK
DRKAAKTLGI VMGVFLACWL PCFLAVLIDP YLDYSTPILJLDLVLWLRYP
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tctcttga gggggggcccg tggggagagcgg gggttagttggc cggggggccact gggtctctctgg cagtagtttgg gttcgggagggga
tcttgggttgg tggctactt ggcccgcagttt cagtttgaagct tctcttctc tttgttccgg gctataggga agtccctc
cccttggctcag gttcttggcag gggttcttaggg ctggcttggga ctggcagggggc tggccggcccg acttggccctt ggctcagttgg
gggaaatcgg ggccctccca ctcttcttgc cctacggcccg accttgggggtt caggccagcag cccctggggctt caccgttggcc
cttggtagta gaaactct ctgtttcttg gttcttggcccg gttgctat caaaccttga ttttggactt cggcgggcccg
cttggggccg gtttggggagact ggcccatgtt gaggggcagttt ggcccttggctat tcttctggcaga cggggctctc tacttggccg
tgggtctct cagttttcg tcatcttgg ggcttccct ttttccagcccg ggagcccgta agtttggctt gcttgggttgg
ctggccctc ccttggctt caacccctt ctggatcccg tcttccagc tcttccagc ccacotcccg gtagggactt ggctggcttgg
ggcccgctga cggggagctag ggcccccctag ctatgttctgc ggccggggggc tggagtagggc ccttggctt ctacacggg
cccttggtag ctcttggat gttggtagta ttcttggagc ttcttaggtt gggtcgggcccg cttgggtcttgg gaaacttggc
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gaaacactt gggtgaacccc aaacctcat ggtagtttagaa ctgtcttga gggtcagtaggggt attacggcca gaaagttaggg
gctttaggg gggttggcccg tttagggccct ctgggttggc ctlttgctta cactttagtaaa tatccctcc cattctc ttccctc

581	190188	G Protein-Coupled Receptor LGR6	AAG17168.1	<p>ttcccttcc tctctccccc tgggtgaatg atggctgctt ctataacaaa tacaacaaa acicagcagt gtgatcata gcaggatggc ccagtiacctg gctccacatg tcaactctct ccttgaccca tacaacagg gggcctcttg gccctggctt cccctggcct tctcagctt caccitgata ctgggcctct tcttgiccat gctgaagct gggacacaga gaccitggact ttgtctgct taaggagaaat gagggagaa gta aagacagtga aggggtggag gggtgatca</p>	P.	Homo sapiens
				<p>MRLEGEGRSA RAGQNLRSRAG SARRGAPRDL SMNNLTELQP GLFHHLRFLE ELRLSGNHL S RHPQAFSG L YSLKILMLQN NQLGIPAEA LWELPSLQSL DLNVNKLQEF PVAIRTLGRL QELGFHNNNI KAIPKAFMG NPLLQTIHFY DNPIQVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTT S LEILTLTRAG IRLPSGMCQ QLPRLRVLEL SHNQIEELPS LHRCKLEEI GLQHNRIWEI GADTFSQLSS LQALDSLWNA IRSIPEAFS TLHSL VKLDL TDNQLTTLPL AGLGLMHLK LKGNLALSQA FSKDSFPKLR ILEVPYAYQC CPYGMCA SFF KASGQWEAED LHLDEESSK RPLGLLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP GPFKPCEYLF ESWGIRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPPVKF VVGAIA GANT LTGISCGLLA SVDALTFQGF SEYGARWETG LGRATGFLA VLGSEASVLL LTLAAVQCSV SVSCVRAYGK SPSLSVRAG VLGCLALAGL AAALPLASVG EYGASPLCLP YAPPEGQPA A LGFTVALVMM NSFCLVAVG AYTKLYCDLP RGDFAVWDC AMVRHVAWLI FADGLLYCPV AFLSFASMLG LFPVTPEAVK SVLLVVLPL ACLNPLL YLL FNPFRDDLRL RLRPRAGDSG PLAYAAAGEL EKSSCDSTQA LVAFSDVDLI LEASEAGRP GLETYGFPSV TLISCQPGA PRLEGSHC VE PEGNHFGNPQ PSMDGELLRL AEGSTPAGGG LSGGGGFQPS GLALLHTY</p>	A	Homo sapiens
582	190414	G Protein-coupled Receptor GPR101	AF411115	<p>atgacgtcca cctgcaccaa cagcacggcg gagagtaaca gcagcacac gfgcagtcgc cttccaaaa tggccatcag cctggccac gggcatatcc gctcaacgt gctggtaic ttccggcg cctcttggc cggcaacata gtcgtggcg taggttgca gcgcaagccg cagctgtctgc aggttgaccaa cgttttaic tttaacctc tgcaccca cctgctgcag atttgcctg tggcccccgt ggtgggtggcc accctgtgc cttcttgc gccctcaac agccactct gcacggccct ggttggccit accacctgt tgccttgc cagcgtcaac accattgtgc tgggttcagt gggatcgctac ttgtccatca tccacctc cttctacccg tccaagatga cccagcgccg cgggttacctg cttctatg gcacctggat tgttggccalc ctgcagagca cttctccact ctacggctgg gggccagctg cctttgatga gcgcaatgt cttctcca tgaatgggg gggccagcccc agctacacta ttctagcgt ggtgtcttc atgtcttc cactgattgt catgattgcc tgcactccg tgggttctg tgcagccccg aggcagcag ccttctgta caatgtcaag agcacagct tgggaagtcg agtcaaggac tgttggggaga atgaggtatga agagggagca gtagaagaaagg aggtatgtcca ggtatgagat gatttttgcg gccagcatga aggtgaggtc aaggccaagg agggcagat ggaagccaag gacggcagcc tgaagccaa ggaaggaagc acgggggacca gtagagatag tgaagggcc aggggcagc agtagagcag acgggtggcca gcagcggcag calggaggggt aaggaagacca gcaccaagt tgaaggaac agcatgaagg cagacaagg tgcacagag gtcaaccagt gcagattga ctgggggtgaa gtagacatgg agtttggga agacgacalc aatticag tgggtgacgt cgaaggcag tgaatccgg agagcctccc accagctgt cgttaacaga acagcaacc tctctgccc aggtgtcacc agtgcnaag tgcnaagg atcttca tcatctc ctatgtcta tccctgggc cctactgct tttagcag cttggccgt ggttgggtat ggaagccagg gtacccagt ggttgatc calaatc tggctttt tctgcag tgcacatcc cctatgt atggctatc gcacaagacc attaagaaagg aaatccagg calgtgaag aggttctt gcagaagaaaa gccccgaaa gaaagatagc acccagacct gcccgggaaa gaggggtggga ctgaaggcaa gattgtcct tctacgatt ctgtacttt tcttga</p>		

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1	MTSTCTNSTR ESNSSHTCMP LSKMPISLAH GIRSTVLVI FLAASFVGNL VLALVLQRKP P QLLQVTNRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL THLFAFASVN TIVLVSDRY LSIHPLSY SKMTQRRGYL LLYGTWIVAI LQSTPPLYGW GOAAFDERNA LCSMIWGASP SYTILSVVSF IVIPLIVMIA CYSVVFCAR QHALLYNVK RLSLEVRVKD CVENEDEEGA EKKEEFQDES EFRRQHEGEV KAKEGRMEAK DGSLLKAKES TGTSESSVEA RGSEEVRESS TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMFEFGDDI NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IFIIFSYVL SLGPYCFLAV LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVYGYMHKT IKKEIQDMLK KFFCKEKKPPK EDSDPDLPGT EGGTEGKIVP SYDSATFP	Homo sapiens
584	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NM_020370	taactgtcca ccagaaagga ctgctcttg ggtgaagtga acttctcca ttatagaag aattgaaggc tgaagaaac accctciatc A atgttggaaca gctctgacgc caactctcc tgciaacatg agtctgtgct gggtciatgt tatgtgtcag ttatgttgagg gggtgtgtgtg gctgtgacag gcaccgtggg caatgtgctc accctactgg ccttggccat ccagcccaag ctccgtacc gattcaacct gctcatagcc aacctcacac tggctgatct cctctatgc acgtctctc agccctctc tgttgacacc taccctacc tgcacttgccg caccgttggc acctctgca gggtatgttgg gctctctt ttgcttcca attctgtc cactctgacc ctctgcctca tgcacttgagg ccgtacttc cctatggc acciaagct ttctcccaa gttttcagtg ccaagggggat agtgcctggca ctgggtgagg agtgggtggc agctttgtc cctctggcc tattatc ctgtgtaccg ttgtctgtcac ctgcagctt gaccgcatcc gaggccggcc ttaccacc atctcatgg gcatctact tgtcttggg ctacgacg ttggctatct ctatggctc atccacgcc aggtcaaacg agcagcacag gcactggacc aatacaagt gcgacaggca agcatccat ccaacatgt ggccaggact gatgaggcca tgcctgttgg ttccaggag ctggacagca ggtagatc aggaaggacc agtgaaggagg tttcatctga gccagtcatg gctgccaca ccagaccct ggaaaggagc tcaatgaag tgggagagcca gatcaacagc aagagagcta agcagatggc agagaaagc cctccagag cacttgcaca agccagcca attaaaggag cagaagagc tccggattct tcatcggaat ttgggaagggt gactcgaatg tgtttgtg tgtctctg ctgttccctg agctacatcc cctcttgc gctcaacatt ctggatgcca ggtccagggc tcccggggtg gtccacatgc ttgtgcca cctacactgg ctcaatgggt gcataaacc tgtgtctat gcagccatga accgccaatt ccgccaagca tgggtctcca tttaaanaag agggcccccgg agttuccala ggctccalla gaactgtgac cctagtcacc agaaitcagg actgtctct ccaggagccaa agtggccagg taalaggaga atagggtgaaa taacacatgt gggtatttc acuaaatct ctccagcc tcccaaatca agtcttcca tcaattgac aatgttcag ccttagactg cccaaggagt attataat attataat gaattctgt ctttaaaaa aaaaaaagaa aaaaaaaaa aaaaaaaaaa aaaaaa	Homo sapiens
585	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NP_065103.1	MWNSSDANFS CYHESVLGYR YVAVSWGTVV AVTGTGTVGNVL TLLALAIQPK P LRTFRNLIA NLTLADLLYC TLLQPFSDVT YLHLHWRGTGA TFCRVFGLLL FASNSVSILT LCLIALGRYL LIAHPKLFPO VFSAGKIVLA LVSTWVVVGA SFAPLWPIYI LVPVCTCSF DRIRGRPYT ILMGIVFVLG LSSVGIFYCL IHRQVKRAAQ ALDQYKLQRT SIHNSHVART DEAMPGRFQE LDSRLASGGP SEGISSEPV AATTQILEGD SSEVGDQINS KRAKQMAEKS PPEASAKAQP IKGARRAPDS SSEFGKVTM CFAVLCFAL SYTPFLLNI LDARVQAPRV VHMMLAANLTW LNGCINPVL Y AAMNRQFRQA YGSILKRGPR SFHRLH ctttgttca gagctaaacc agttttct ctctcacag caaatatct gcacagatc atctctccc agctgttggc aagaagacag aagctctct acaactatct ctggcactc gctgtgtccg acatctgtt cctttttc atagtgtt ttgacttct gttggaagat ttcatctga acatgcagat gctcaggic ccgcacaaga tcatagaagt gcttggattc tcatcatcc acactccat atggattact	Homo sapiens
586	190419	G Protein- Coupled Receptor Ls190419	AJ303165		Homo sapiens

587	190419	G Protein- Coupled Receptor Ls190419	CAC33085.1	LCFRKAPVFL LSTANILTVI ILSQLVARRO KSSVNYLLAL AAADILVLFF IVFVDFLLED FILNMQMPQV PDKIEVLEF SSHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTRKVI VSVYITCFLT SIPYYWPNL WTEDYISTV HHVLIWHCF TVYL VPCSF FILNSIIVYK LRRKSNFRLR GYSTGKTTAI LFTITSFAT LWAPRIIMIL YHLYGAPIQN RWL VHIMSDI ANMLALLNTA INFFLYCFIS KRFRIT	P	Homo sapiens
588	190427	Cysteiny Leukotriene CYSLT2 Receptor	NM_020377	aaagtctcta agtttgaagc gtacagcttca accaacaaca ttaatggcta ttacatcic aaaaalacagg aaalttaaat ttatattgaa atgtaatgca gcatgtagta aagacttaac cagtgttta aaacticaact ttcaagaaga agatagtatt gtccctggt tcatataaac ctagagaat gtaacagta agcaagaagg aaaaaggaga aaccacaaag taacttttg tgcitgttic ttittaaacc agcagggaga gaaatltat gtcttgcga ccalccatct cagtatcaga aalgggaacca aatgggcaact tcaagcaataa caacagcagg aactigcaca tggaaacit caagagagaa ttittccaa tggatatt tctgggggag tctggggaaa tgggtttgtcc atatatttt tcttgcagcc ttataagaag tccatcttg tgaacgtttt catgtctaact ctggccaatt cagatctct gtcalaaagc acgtctccct tcaaggctga ctattctt agaggctcca atggatatt tggagacatg gcttgcagga ttatgttta ttctgttat gtcaacatg acagcagtat ttattcttg accgttctga gttgttggc ttuccitggc atgggticacc cctttcggct tctgcattg accagcalca gggagtgctg gtaactctg gggatcalat ggaacttat catggcttcc tcaataatgc tcttgggacag tggctctgag cagaaaggca gttgacatc atgtcttagag ctgaattct ataaattgc taagctgca accatgaact atattgctt gggttgggc tgcctgtctg caatttcc actcagcalt tgtatctgc tgaatctgc ggttctgtta aaagtggaggg tccagaalc ggggcttgcgg gtttccaca ggaaggcact gaccacalc atcatcact tgaatctt cttctgtgt ttccgtcct atcacacat gaggaccgtc cacttgcga catggaaat ggggttatgc aaagacagac tgcataaagc ttgggtatc acactggct tggcagcagc caatggctg ttaactct tgcctatta cttgtctgg ggaatatta aggcagagact aaagtctgca ctcagaaaaag gocatccaca gaaggcaaa acaagtggtg ttitccctgt tagtgtgtgg ttggaaagg aaacaagggt ataaggagct cttagatgag acctgttct gtaacttct gtccatctc attactat agtctccaa tgcatttga ttatcac tccacaaca tttgtatct taatattag ttgaccattia ctttgttaa taaggacctac ttcaaaat ttatcagtg tttttcagt ttttgtatct taatggagg taccaggagg aaaaacctia ctaggctct gttgggtgaa atalcagact ggggaaaaat gcaaaagcaca ttggatctta ctttttca gatattgaac cagatctctg gcccacagg ctttcaaat tctcaaaag agccaacat tcccagct ctocagctc cctgtctct tcaalccctt gtagatagc aactaacagc gtaacttgaa gcccagagc agaaaaaag cacatctaa gattcaggga aagactaat gtagaaagg aagctgtctct atacaagaag agcalcaagt cccaagttaag gacagtga gaaagggggg agaaaggatg gaggcaaaaga gaaactgggcaa taagtgggg aaggaagaat ttcatttgc attgaggag aggttttaac acactgaagg caacctatt tctctgtt cttctgtcc aggtgtatag gaaggacagg aaaaagttag gggagatctg gggcattgccc ctaggaaatg aagaattgt gtaataagag gaagggggat calcaaggac atgtatctca aatttttt gtagatgtag ttatgtgacc ttgttccc ttcttccc ataatcat tgggtatgaa gccaataa aaaggaggtc ctctgaggat taggtgtgag cactcaagggg aagatggag tagggggcaa atagcaaaag ttgttgcact cctgaatc tattaact tccgcagaag atgtagagg agatgtctg tttctttt agatagtgta gaaaaaact agatagtggt agagggttct tctgtccat tgaacaagg ctgaaggatc taaccaactc taccacatg accatgtac tgaacaact tgaatgagat	A	Homo sapiens

589	190427	Cysteiny Leukotriene CYSLT2 Receptor	NP_065110.1	<p>ctccctgcag ggcagattat gccaggcact ttacatttgt tgatccatt tgacattcac accaaagcic tgagttccat ttacagctg aagaaatiga agcttiagaga aaltaaagag ctgtttaag ttacacagc tagtaaagt ttaaaaic tctgicaga agtltggct gggtgtctc ccaccacia ccttgitaa ctccaggaa gattgtga aagtctgaat aagaagctgc ctcttacc aattctcc ccctctcac tctacaaga aaaccaaag ttctctca gagtgtga ctatagiac agtaaaggt ggaagtata tggcattcig aaagttagga gggactaagt cagctgtac actaac MERKFMSLQP SISVSEMEPN GTFNNNSRN CTIENFKREF FPVYLIFF WGVLGNGLSI P Homo sapiens YVFLQPYKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRIMSYSLYV NMYSSIVFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IIWILMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLTQ MNYIALVVC LLPFFTLISIC YLLIIRVLLK VEVPESGLRV SHRKALTTHI ITLIFFLCF LPYHTLRTVH LTTWKVGLCK DRLHKALVIT LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFVS VWL RKEITRV A Homo sapiens cctgtgccc agtgcctgga caaatctaa ctcctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgca gctacagga tggggattac agggacctt cggaccgcc tgtggactgc ctggatggcg cctgcctggc catggaccgc ctgcgcgtgg ccccgcctcc actgtatgoc gccalttcc tgggtgggt gccgggcaat gccatggg cctgggtggc tgggaagggtg gccgcgcgga gggtgggtgg cacttgggt ctcacactgg ccgtggcga ttgctgtgc tgtttgtc tgcctact gccagtgccc atggcccg gaggccacig gccgtatgg gcatggggct gtcggggcgt gccctccatc atctgtcga ccatgtatgc cagctgtcgt cctcggcag cctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgct acggttgcg gggtgtgctgg gggtgaggtg gccgtgggg cagcctggac actggcctg ctgtcacog tgcctcgcg cactaacgc cggctgcac agggacacti ccaagcccg ctgcagtg tgggtgacta cggggctcc tcaagaccg agaatgggt gactgccalc cgtttcti ttgcttct gggtggccctg gtggccgtgg ccagctgcca cagtggcctc ctgtgtggg cagcccgag ctgcgcgcg ctagggcag ccatgtgt gggttttt gtctgtgg cacciacca cctgtgggg ctgggtgctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct gcgggctgaa cccctatcg tgggcttgc cctgtcac agctgctca atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg cagctgtcct gtcatgggc ctggaggag tccaggccc agggcgaag tgtggacagc aagaaatcca ccggccatga cctgtctcg agatggaggg tgggtgtgg agagacattg tgggtgtg tcttctatc tcatltcaca agactggcti caggcatagc tggatccagg agctcaatga tgtcttcti ttatcttc ctcatcaa cagatatcca tcatgacti gctatgca aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCFLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtcti gggtcicag cctgggtc tctgaccc tgggacgggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgti gggtggggctg ttcccctgg gcgagccga ggaggtggc ctccgagcc ggacagcc cagcagcccti gctgtaccca gggtacaggg tgggacggcc tgggtgggg tcaagggtgac caggtctggg gtgtctcga gctggggccg aggtggccat ctgcgtcti gttgtggccc aggttctct caaacggccti gcttgggga ctggccatga aaatggccgt ggagggagatc aacaacaagt cggatctgti gccggggctg cgtctgggti acgaccti tgatctgc tggagcctg tgggtggccat gaagccagc ctaatgttcc tggccaaggc aggcagccgc gacatggccg</p>
590	190437	G Protein- Coupled Receptor C5L2	NM_018485	<p>ctgtgtgccc agtgcctgga caaatctaa ctcctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgca gctacagga tggggattac agggacctt cggaccgcc tgtggactgc ctggatggcg cctgcctggc catggaccgc ctgcgcgtgg ccccgcctcc actgtatgoc gccalttcc tgggtgggt gccgggcaat gccatggg cctgggtggc tgggaagggtg gccgcgcgga gggtgggtgg cacttgggt ctcacactgg ccgtggcga ttgctgtgc tgtttgtc tgcctact gccagtgccc atggcccg gaggccacig gccgtatgg gcatggggct gtcggggcgt gccctccatc atctgtcga ccatgtatgc cagctgtcgt cctcggcag cctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgct acggttgcg gggtgtgctgg gggtgaggtg gccgtgggg cagcctggac actggcctg ctgtcacog tgcctcgcg cactaacgc cggctgcac agggacacti ccaagcccg ctgcagtg tgggtgacta cggggctcc tcaagaccg agaatgggt gactgccalc cgtttcti ttgcttct gggtggccctg gtggccgtgg ccagctgcca cagtggcctc ctgtgtggg cagcccgag ctgcgcgcg ctagggcag ccatgtgt gggttttt gtctgtgg cacciacca cctgtgggg ctgggtgctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct gcgggctgaa cccctatcg tgggcttgc cctgtcac agctgctca atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg cagctgtcct gtcatgggc ctggaggag tccaggccc agggcgaag tgtggacagc aagaaatcca ccggccatga cctgtctcg agatggaggg tgggtgtgg agagacattg tgggtgtg tcttctatc tcatltcaca agactggcti caggcatagc tggatccagg agctcaatga tgtcttcti ttatcttc ctcatcaa cagatatcca tcatgacti gctatgca aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCFLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtcti gggtcicag cctgggtc tctgaccc tgggacgggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgti gggtggggctg ttcccctgg gcgagccga ggaggtggc ctccgagcc ggacagcc cagcagcccti gctgtaccca gggtacaggg tgggacggcc tgggtgggg tcaagggtgac caggtctggg gtgtctcga gctggggccg aggtggccat ctgcgtcti gttgtggccc aggttctct caaacggccti gcttgggga ctggccatga aaatggccgt ggagggagatc aacaacaagt cggatctgti gccggggctg cgtctgggti acgaccti tgatctgc tggagcctg tgggtggccat gaagccagc ctaatgttcc tggccaaggc aggcagccgc gacatggccg</p>
591	190437	G Protein- Coupled Receptor C5L2	NP_060955.1	<p>ctgtgtgccc agtgcctgga caaatctaa ctcctcaagg actccaaaa ccagagacac caggagcctg aatggggaac gattctgca gctacagga tggggattac agggacctt cggaccgcc tgtggactgc ctggatggcg cctgcctggc catggaccgc ctgcgcgtgg ccccgcctcc actgtatgoc gccalttcc tgggtgggt gccgggcaat gccatggg cctgggtggc tgggaagggtg gccgcgcgga gggtgggtgg cacttgggt ctcacactgg ccgtggcga ttgctgtgc tgtttgtc tgcctact gccagtgccc atggcccg gaggccacig gccgtatgg gcatggggct gtcggggcgt gccctccatc atctgtcga ccatgtatgc cagctgtcgt cctcggcag cctcagtg cgaactctgc ttctggctc tcggggctgc ctgggtgct acggttgcg gggtgtgctgg gggtgaggtg gccgtgggg cagcctggac actggcctg ctgtcacog tgcctcgcg cactaacgc cggctgcac agggacacti ccaagcccg ctgcagtg tgggtgacta cggggctcc tcaagaccg agaatgggt gactgccalc cgtttcti ttgcttct gggtggccctg gtggccgtgg ccagctgcca cagtggcctc ctgtgtggg cagcccgag ctgcgcgcg ctagggcag ccatgtgt gggttttt gtctgtgg cacciacca cctgtgggg ctgggtgctca ctgtgcggc cccgaactcc gcaactctgg ccaggggcct gcgggctgaa cccctatcg tgggcttgc cctgtcac agctgctca atccatgt ctctgtat ttggggggg ctcaactcc cgggtcactg cagctgtcct gtcatgggc ctggaggag tccaggccc agggcgaag tgtggacagc aagaaatcca ccggccatga cctgtctcg agatggaggg tgggtgtgg agagacattg tgggtgtg tcttctatc tcatltcaca agactggcti caggcatagc tggatccagg agctcaatga tgtcttcti ttatcttc ctcatcaa cagatatcca tcatgacti gctatgca aggcctttt aggcactaga gatagcag tgaacaaa agacaaaat cctgccc MGNDSVSYEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAIFLVGV P Homo sapiens PGNAMVAWVA GKVARRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCFLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPML FLYFGRAQLR RSLPAACHWA RESQQQDES VDSKSTSHD LVSEMEV A Homo sapiens atgtggggc ctgtgtcti gggtcicag cctgggtc tctgaccc tgggacgggg gccccattgt gccgtcaca gcaactagg algaaggggg actactgti gggtggggctg ttcccctgg gcgagccga ggaggtggc ctccgagcc ggacagcc cagcagcccti gctgtaccca gggtacaggg tgggacggcc tgggtgggg tcaagggtgac caggtctggg gtgtctcga gctggggccg aggtggccat ctgcgtcti gttgtggccc aggttctct caaacggccti gcttgggga ctggccatga aaatggccgt ggagggagatc aacaacaagt cggatctgti gccggggctg cgtctgggti acgaccti tgatctgc tggagcctg tgggtggccat gaagccagc ctaatgttcc tggccaaggc aggcagccgc gacatggccg</p>
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597	G Protein-Coupled Receptor SH120	NP_057418.1	P	Homo sapiens
598	G Protein-Coupled Receptor GPRC5B	NM_016235	A	Homo sapiens

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Homo sapiens

P

599 190599 G Protein-Coupled Receptor GPCR5B NP_057319.1

Homo sapiens

A

600 190602 G Protein-Coupled Receptor GPCR150 NM_014373

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1	<p>tttactttt ggtaaacatt tccattatatt tgratttcag ggattttgta ctttaagca tttagttcac taaataccac atctgcccatt ttactcaaat tatttcttt actatggct ttggcattt tccagtttc ctgacagctt gtaataagta ttgcttgaat ttcttaaaa caaccaagct ttactttaag tgcataaatt tatttattt cttacagta attttaattt ggatttcagt ccttgcttat gttttgggag accagccat ctaccaagc ctgaaggcac agaatgctta ttctgctcac ttgctcttct atgtcagcat ttagagttac ttggctgtcat ttttcgtt gattgattta tttagctt tcaaacctg ttgggaagaa gttacttct ttgtaagggc tatcaggata acttctata tgaatgaac tatcttatat ttcttttt tccaccctc cagttactt ttgagactta aaaaattt cttatccaag ctactgtct gttttcicag taccgttgta ccaattgtac tactcaggt aatcattgt ttacttaag ttacattcc agcatatatt gtagatgaata ttccctggtt atactttgic aatagtttic tcatgtctac agtattgttt ttatattgic acaagcttaa tttaaaagac atttgattac ctttgattcc attgtcaac tggaggtgt gttcattcc acttaaat cctaattct agcaaatgta aagccctata tcaataatga tttgaata ttataata aagttacag ctgtcataag atcataatt tatgaacaga aagaacacag gacataataa aaaaataact gaactaaaac aactttgcc cccgtactga tagcatttca gaattgtct ttgaaggggc tatcaccagt attaaatgt gttttattt aaaaacaaaa taattccaag aagttttat agttattcag ggacataata ttacaatat tactttgta ttacacaaa aagtgataag agtttaacatt ttggtatatt gaattttgt ttactcaaaa aaactactgg atgcaaacgt ttatgtaaa ctgagatttc actgacaact ttagatatac aacctaaa ca tttattaa atgtcaaat gtaagcaaga aaaaaaaa</p> <p>MTALSSNCS FQYQLRQTNQ PLDVNYLLFL ILGKILLNI LTLGMRKNT CQNFMEYFCI SLAFVDLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGFLHY PVFLTACIDY CLNFSKTTKL SFKCQKLFYF FTVLWISV LAYVLGDPAL YQSLKAQNAV SRHCPFYVSI QSYWLSFFMV MILFVAFITC WEEVTLVQA IRITSYMNET ILYFPFSHS SYTVRSKKIF LSKLIVCFLS TWLPFVLLQV IIVLLKVQIP AYIEMNIPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP LTPNLEQIE KPISIMIC</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788	<p>ggttccacc catcagacca cagcttcacg ccaggagacg ttggggcagca gtagtcatag gagacatctg gaggtgaggg cttccaccg gggcctctct gctccattgg atggcagggct ccggggcagac gagtgccag gggtgtgtgg gtagtcaaggg tttggagcaa gagcggccatg gggtggccctcc ccagtgggag agaaagcacag gtagtgaagggg gttggggccct gtaggtgaltct cagtgctacc cgaacggct gcaatgacag gcccatggag aagggacatt gtcaggtgag acgtggggctt ccaaaagccc caggtctgggg gttccgagtc ctctgaltt tccctgagggt gctcttuga ggcctgtggc accctgggga ttgtggaltcc cgtccatgt gtccacctga caagcacttc tccctgggac tctgtgctt gctccatcac ctgcaaccctc tcttaattag caggttggag agtgggggtcc acattgaaag gtaggttgg ttgactcaga attgtccca gctgtgagga attgtataac cctacattia aaacgcaagc agcttgccatt gagccttaggg acagaaagaa aagccggccc ctgagccctca ccttgccccc aggggtggct ctgtgagcca aagcccttga gttggaaagag ctcaaggagga aggcagctctg agccatggggc ttggcagctgc aggaagataca gtcctccctc ccagtgaggc tctccact tctctgtctc aaacctgggg ctccagggaga actgtttgta aagactgggg gaactctgg aagggagtg alattctgt ccactccaag gctccaacac tccagcact gttgccaggac atgggccccca cttagggatga ccgtgcccc gtcggggctcc cctaaacgca gctctgttg gcaaggcttag ccggagcagc cctccctggga agccgtgtgt tcaagtccc ttctccag ctccctgct cctcttaag acaggggcaag ggggcaggccc gggttccct ccactctga catcagtica acttgatca ggcctgaggg cctgggtgag ttctggggac tctccaata aggttttana aaattcttat actttaaaa ttctgcccgg gccagtgggc tccgctctgt aalctgtgca ctggggag ccggaggtgggg ttggatcacct gaggtcaga gttcagact agccgtggca acatgttga cctggcttc ttctaaatat acaaaaatta gccaggtgtg gtggcaggtg cctgtaacc cagctactcg ggaggtctgag gcaaggagat ttgttgacc ttggagggcgg aagttgcaat gagctgagat tgcacattg cactcaggc ttgggtgacag agcaagctg tctcaaaaa aataaaaaa aaaaaaataa actttctat caaaaaacaa gcaaaaagccg cctcgtgac ttgattccacc atctctctt ttgtctccatc ttgtgaaagg</p>	A	Homo sapiens

[illegible]

[illegible]

[illegible]

[illegible]

607	190701	C-C Chemokine Receptor 11	NP_057641.1	<p>ttttatggg agcatcttc aaaactiac ttatgaagt ggccaagaaa tatgggtctt ggagaagaca gagacaaagt gtggagaggt ttcttttga ttctgaggggt cctacagagc caaccagatc tttagcatl laaagglaaa acigtcttcg ctttggcttg gatacataig aatgaltgct tccctcaaa laaacatct gcatlactt gaaactcaaa tctcagagcg cgttggttga actataata aagaaatgggt tgggggaagg ggagagaata aagccaaga agaggaatac agataataa tgaataaac atgaaatla aaatgaaca tataggaaaa taatgtaac aggcataagt gaataactc ctgctgaac gaagaagagc ttgtggga taatttga tcttggttc agtgggtt atacaact acacaagta laaalgaca cagaatata tacacatlt glaccatlt caatttcttg gttttgatc tatagataa ttatgaaga tggaaacct gggaactc gggtgaaggc taccagagc cacttgatc calcttga acttcttg aattataat aatttcaaa laaacaagt laaaaaaa cccactatgc tataagtag gccatcaaa acagattat aaagaggtc atgtaaaag gcattataa ttattitaa taataagt ttaataca gaacgattc cctgcataat ttatgact gaataagtat gcagcagaac tcaactalc tttttctg ttttttaa aattgaagt aatttataa aatccaccic cccaataaa gcaataaaaa aaacacaaac tataaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaa</p> <p>MALEQNQSTD YYEENEMNG TYDYSQVELI CIKEDVREFA KVFLPVFLTI VFVGLAGNS MVVAYAYYK KQRTKTDVYI LNLAVADLL LFTLPFWAVN AVHGWVLGKI MCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWIIFC VWMAAILSI PQLVFTYVND NARCIPFR YLGTSMKALI QMLEICIGFV VPFLMGVCY FITARTLMKM PNKISRPLK VLLTVIVFI VTQLPYNIVK FCRADIIYS LITSCNMSKR MDIAIQVTES IALFHSCLNP ILVYFMGASF KNYVMKVAKK YGSWRRQRQS VEEFPDSEG PTEPTSTFSI</p>	P	Homo sapiens
608	190705	G Protein- Coupled Receptor SALPR	NM_016568	<p>gatttggga gtaagcgc agtggcccg tgaacgggg acacggagag gggaagtcgt cgtgtacat aaggacatg ggactccgag ctggcctga gaaaccttg agccgagtg ctgcttacc gggtctgact cctcaactc gctcaagc agccgtgag ctcaactct gcgtcaggg cgttcgtgc gcgccagagc gcgttagla cccagtctt gggtctctc ttcagtgt ctgttgaaag ctccacgca cgtcccgca gctagcctgg caaanaact gggtgtaaac gttatct aggtctgtc cccagaaca tgaactagag gtacctgc atgcagatgg ccgaltgca gcccgaacac gagtggtaac aggcagcagg cggggacaag ctgacagaac tctcagct ggccccgg acctggagc cgttcggagc cggccaacac gagtggtaac gcgtcgtgc agcttcgga ctgtgggtgg aggtctggggc tggagttgccc ggacggcgcc ccgccagggac atccccggg cagcggcggg gcagagagcg cggacacaga ggccccgggt cgggtatcca tcaagctgtt gtaaggggt gttggcgcc tgggttggc gggaacctc ctgggtct accgtatgaa gagcagcag ggctggcgca agtctctat caactctc gtaccaacc tggcctgac ggactttag ttgtgtca cccgtctt cggggcggt gggaacgctc tgaactcaa atggcccttc ggcaaggcca tggtaagat cgtgtccatg gtgacgtcca tgaacatgta cggcagcggt tcttctca ctgccatgag tgtgacggc taccattggc tggctcggc tctgaagagc caccggaccc gaggaacggc cggggcgag tcttggcgcc ggagctggg ggacagctgc tggctcggc ocaagggtgt gttgtgtgtt atctgggtt tggccggct ggctcgtc cccagtcca ttctccac caggttcaag gtgagggggc aggtggtgtt cctgtgtgt ttcccgga agtgtcggc ccgcgacagg cagttggc tggggctcta ccactggcag aaggtgtgtt tgggtctgt gctggcgctg ggcatcata tctgtgtc cctgtgtc gtgggttca tggcggtc cggcgagc gggtaccagg gggtggcgcc ggtagccgga ggagcccgga ccggagggc cggccggaga ctgtgaaag tcaaaaac agtgacatc gttgtctgt ccttctct gttgtgtc ccaacagg gcctcaaac ctggagcatic ctatcaagt tcaacgggt gccctcagc caggaatlt tctgtgcca ggtatagcg ttccctgtga gctgtgtc atgctcacitc aacagctgccc tcaacccgt cctctatgc ctggtgccc gcgaattccc caaggcgctc aagagcgctc tgggtgtct cgtgtctct tcatcaca gcatggccc cttaccgccc actaacagg cggagcagca ggatcagggc ctgagggccc cggcgccc ccaacggcgcc</p>	A	Homo sapiens

609 190705 G Protein- Coupled Receptor NP_057652.1 P Homo sapiens

gagagagccgg accgctctia claccacgtt ggcgctgctgg tclacagcgg gggggcgcctac gaccgctcgc ccagcagctc
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atgaaggagg gctgggg

MQMADAAATIA TMNKAAGGDK LAELFSLVPD LLEAANTSGN ASLQLPDLWW
ELGLELPGDA PPGHPGSGG AESADTEARV RILISVYVWV VICALGLAGNL
LVLMLKSMQ GWRKSSINLF VTNLALTDQF FVLTLFWAV ENALDFKWPFF
GKAMCKIVSM VTSNMVYASV FFLTAMSVTR YHVSASALKS HRTRGHGRGD
CCGRSLGDS CFSKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR
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GTKGGAAVAG GRPTGASARR LSKVTKSVTI VLSFELCWL PNQALTTWSI
LIKFNAPFS QEYFLCQVYA FPPSVCLASH NSCLNPVLYC LVRREFRKAL
KSLLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYPP
GVVYSGGRY DLLPSSAY

610 190711 G Protein- Coupled Receptor NM_018970 A Homo sapiens

ggcacagaga ttactgct gctcaagat cagattatta cgtagagaa gattttat ttgtttca ttaacagatt attataaagc
aaaaagcatg cagaaaaaga agcagacgtt ttacatggg aattaalga agcgtgctg agttttgg gtagggagaa
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611	190711	G Protein-Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>ataccacatt cctcatctac tagtaagatt gctagcattg aactgtaata tgggtttt gttgattgg taataagttt ttcaalica</p> <p>ttatattt acaaatgcta gatattggc tgggaggcaa cattaatggt accagccgt cacaacigag cagltctaata aalgcagaat</p> <p>aaatacatgt tgccttaag ggtatctag tatccttcatt ctatttagc acttggagcaa atagccaagg gaaatacaat cagtaactgg</p> <p>tcattgcat gcaltaaaa gtgcatggaa galcatttat tacttttcc ttatttcc acatggttg aaactaaaag tgcacatcac</p> <p>tgaataatg agattttct ctacgggtg ctacccttc taactgtc taagaagcag gcaatgtatg tatgttata tttaagcga</p> <p>gctgcaagg ggaaccaca gactatgat gacatctgc acaattgtg aagcallat tcaicgaag gcaagictt gttalactt</p> <p>tcgcacatt caggtattg gtaattaaa ttattcagt tttaactgt gaaagctat attatgatt ctggtattt agaaatacal</p> <p>tagagictg ggtgtcatt cttaagata cagatgtg gaaactaata taaagtgc ttgccaata ttaccctg tagcctgtta</p> <p>attttctga aataagttt acattttg cacatacaa cgtttttt aattggggg gcaagacaa actagggaaga ctactttat</p> <p>taigtgtt cttttgatt ctgtagccta ctatcca gactggaaat gtagaatga taatcaaal aalgcigala aacigacala</p> <p>atattatcg taaaagcatt attgttatt ttataat calccctcta ttattctaa algccagtag tatttaga tggtaaccig</p> <p>cttagtaat tggctcagaa tttaataa aacalcacac tttaattgg agcatagtag calagaaatt tgggggtcta aatatacaac</p> <p>tigtaagaag aatggtttac actaacatta tgcataaact agaaaaagt attattttg ttgctttct gttgtttgt ttatggttg</p> <p>gttttga agtttttt ttnttgga ttgataat aagatagga atcaataac acagaattcc atattgctat agtacttgc</p> <p>taagaagt atcaataaa ataggaataa taatcaatg aaatgttca alggttaaaa aaaaaa aaaaa</p> <p>MANYSHAADN ILQNLPLTA FLKLSLGF IGVSVVGNLL ISILLVKDKT</p> <p>LHRAPYYFL DLCCSDILRS AICPFVFNK VKNSTWYTG TLTKVIAFL</p> <p>GVLSCFHTAF MLFCISVTRY LAIAHHRFYT KRLFTWTCLA VICMVWTLSV</p> <p>AMAFPPVDV GTYSFIREED QCTFQHRFR ANDSLGFMML LALILLATQL</p> <p>VYLKIFFVH DRRKMKPVQF VAAVSQNWTF HGPASGQAA ANWLAFGRG</p> <p>PTPPTLLGIR QNANTTGRRL LLVLDEFKME KRISRMFYIM TFLFLTWGP</p> <p>YLVACYWRVF ARGPVVPGGF LTAAVWMSFA QAGINPFVCI FSNRELRRCF</p> <p>STLLYCRKS RLPREPYCVI</p>	P	Homo sapiens
612	190725	G Protein-Coupled Receptor GPR26	LG93120	<p>aggtagtgg agctctctc caaggtggcc atcggtccc actgggggggt gctgtccaaag tgcitggcgt acagaaggc</p> <p>cgcacggac cccitttgt actcttact ggcacaccag taccgaaaa gctgcaaggga gattcigaac aggcctcgc</p> <p>acagagctc calccatcc tctggccca caggcgactc tcacagccag aacattctgc cgggtgtciga g</p> <p>MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRRQA PALFTLNLTC</p> <p>GNLCTVNM PLTAGVVAR ROPAGDRLCR LAFLDTFLA ANSMLSMAAL</p> <p>SIDRWVAVF PLSYRAKMLR RDAALMVAYT WLHALTFPA ALALSWLGFH</p> <p>QLYASCTLCS RRPDERLRF VFTGAFHALS FLFSFVLCC TYLKVARFHC</p> <p>KRIDVITMQT LVLVLDLHPS VRERCLEEQ RRRQRATKKI STFIGTFLVC</p> <p>FAPYVITRLV ELFTVPIGS HWGVLKCLA YSKAASDPFV YSLLRHQYRK</p> <p>SCKEILNRLL HRRSIHSSGL TGDSSHQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein-Coupled Receptor GPR26	LR26	<p>atgcctgga ctgattatgt gcgtgagcct ggcgggtaac gcatctgtg cctgtctgtg gctcaaggag cgtgcctgc</p> <p>acaaggctc ttactatc ctgtctgacc tctgctctgc cgaatggcata cgtctctgc tctgtctcc cttgtctg gctctgtgc</p> <p>ggcaggctc ttactgacc ttcatggcac tcatgtgcaa gattgtggcc ttatggccg tgccttttg ctccatgg gctctcalgc</p> <p>tgtcttgcac cagcgtacc cgtacatgg ccatggcca ccacgcttc taccgcaagc gcalgacact ctggacatgc</p> <p>gcggctgca tctgcatggc ctggaccctg tctgtggcca tggccttcc accgtctt gacgtgggca cctacaagt</p> <p>tattcgggag gagggaccagt gcatcttga gcatgctac ttcaaggcca atgacagct gggcttcatg ctatgttgg cgtgtctcat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969	<p>atggccaaca ctaccgga gactgaggag gtgagcggcg ctgtctccc accgtccga tcaagctatg tgaagcigtg</p> <p>actgtgga ctgattatgt gcgtgagcct ggcgggtaac gcatctgtg cctgtctgtg gctcaaggag cgtgcctgc</p> <p>acaaggctc ttactatc ctgtctgacc tctgctctgc cgaatggcata cgtctctgc tctgtctcc cttgtctg gctctgtgc</p> <p>ggcaggctc ttactgacc ttcatggcac tcatgtgcaa gattgtggcc ttatggccg tgccttttg ctccatgg gctctcalgc</p> <p>tgtcttgcac cagcgtacc cgtacatgg ccatggcca ccacgcttc taccgcaagc gcalgacact ctggacatgc</p> <p>gcggctgca tctgcatggc ctggaccctg tctgtggcca tggccttcc accgtctt gacgtgggca cctacaagt</p> <p>tattcgggag gagggaccagt gcatcttga gcatgctac ttcaaggcca atgacagct gggcttcatg ctatgttgg cgtgtctcat</p>	A	Homo sapiens

615	190741	Sreb3	NP_061842.1	<p> ggcagctacc catgctgct acggcaagct gctctcttc gaggatctgc accgcaagat gaaaggcaggc cagatggctgc cagccatcag ccagaaactgg aacttccalg gtcggggggc caccggggcagg gctcgtgcca acgggagtcgc cggctttggc cgtggggcca tggccaacc cctgctgggt atccggcaga atggggcagc agccagccgg cggctactgg gcatggagca ggfcaagggt gaaaagcagc tggggcgcag gttacggc atcacatgc tcttctgct cctcgtgcca cctacatgc tggcctgcta cggcgagtg ttgtgaaag cctgctgct gcccacgc taccggcca cgtcgtttg gatgagctc gcccaggctg ccgtcaacc aattgctgc tctcgtccta acaaggacct caaggagtc ctagggagac acgcccccg cggggcaca ggaaggggc cggctccag agaaccctac tggctcgt g MANITGEPEE VSGALSPSA SAYVKLVLLG LIMCVSLAGN AILSLLVLKE RALHKAPYYF LLDLCLADGI RSA VCFPFVL ASVRHGSSWT FSALSCKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRY FKANDTLGFM LMLAVLMAAT HAVYGKLLF EYRHRKMKPV QMVP AISQNW TFHGPATGQ AAANWIAFG RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQLGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVWMSF AQAAVNPVIVC FLNKNLKKK LRTHAPCWGT GGAPAPREPY CVM gagctctgc cacagactag agcagggaag ggggggaaag cggcgataga ggttagcagg aatgttaat latcaggagc aggaaacaga ctaggggcat gcccaggctc acacaggccc tcataggccc aggttccca gtagggagga aacaggagc tggacttc tctctttt ccttcctgc tctagctc aggtcagc cgtcgtgag gaattccaa cgttttag tggcactgt ccctgggcat ggttaagcc tctcagacc cttctgccc aacacccca aactctct tgaataat atcatataa atgctatt cacatgatt cttcattgc atcagccac tctcgtgag cagacthacc tgaataatt aagcaagaaa acagggcttag gggagtaag taacttccc agtcacacg ctagtgagca ctaggtctcgg gactccggcag cctcgtct tctctctt ggacacccat gctgattccc tgcctatg ccacttcca gggccctgc ttggggccc aagggaacac ttittgcaga ggggggggc cttgcacg ttgggaacag aggcagctct agtttggct cgtcactc tggggacagg aaactccag ctctctctt ggggtggagg cttggggctg cctccatag cggggtaact ctccctc cctctct cgtccattt gaggccct tacaggcggg cgcagcaca tatccctgg cattcaggct gttcctggc cggcccacc taccaccaat ctggaccaac aggaaagggg tgggttgc ttccacac cctcctcgt aggtgtgggg gtagggcagg gctcaccaga gggccagag aagcactaa ttctacagc tcttctag agcctcagt gggctcgtc agcttggcag acacttgcg accctcttc tcagccac caatcttga tggccttga tggccact caatctct gctctccac ccacttct cggggccaat gctcgggag gcagtgtgt gtagtctga tggcttcca ttcttcca allctagcc ctagggctca tgggttccct gggctatggg cttgggggg ccatggctt gctgggaaat ttggcgggtc tgggtgact gtagtaact gttccggagg cctcggccc accitcagac accctgct tcaacctggc tctggcggg cggggagctg cactcact cctctttgg gcaaggcag cggcacagg ctttactgg ccttgggag gttgctctc caagtggtt ctggaggcca ctgtctcaa cgtctatggc agcatcttc tcatcagc gctgaggtt gctgctact ggggtgtgtggc calggctggc gggccagcca cccacttc actctctgg gcccgaag ccacctggc agttgtggggc gggcgtggcc tgggtgaggt gcccacagct gcttggggg tggaggggtt gttgtgtt gttgctt gctgctc ttccacag aggttactggc tggggggccta cagctggcag agggtgtgtc tgggtttcat gttgcttgg ggggttcatca ccaacagcta cctgctgctg cgggcttcc tgcaggggc gcaacggggc cggcagggaca gcaagggtctt gggccgtctt gttgggtt cttctctc tgcgtgtt ccaacat ggtcacttc tgggtgttcc tgggtgaagt tgaactgtt ccttggaca gtacltca tclatocag acgtatgt tccctgtac tacttctg gcaacagca atagcttcc caacctgtt cgttactgt tcttggggc gggggccgg caggctctgg caggggacctt caggggatct cgggtggggc tgggtggcca ggggtggccct </p>	P	Homo sapiens
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	<p> ggcagctacc catgctgct acggcaagct gctctcttc gaggatctgc accgcaagat gaaaggcaggc cagatggctgc cagccatcag ccagaaactgg aacttccalg gtcggggggc caccggggcagg gctcgtgcca acgggagtcgc cggctttggc cgtggggcca tggccaacc cctgctgggt atccggcaga atggggcagc agccagccgg cggctactgg gcatggagca ggfcaagggt gaaaagcagc tggggcgcag gttacggc atcacatgc tcttctgct cctcgtgcca cctacatgc tggcctgcta cggcgagtg ttgtgaaag cctgctgct gcccacgc taccggcca cgtcgtttg gatgagctc gcccaggctg ccgtcaacc aattgctgc tctcgtccta acaaggacct caaggagtc ctagggagac acgcccccg cggggcaca ggaaggggc cggctccag agaaccctac tggctcgt g MANITGEPEE VSGALSPSA SAYVKLVLLG LIMCVSLAGN AILSLLVLKE RALHKAPYYF LLDLCLADGI RSA VCFPFVL ASVRHGSSWT FSALSCKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRY FKANDTLGFM LMLAVLMAAT HAVYGKLLF EYRHRKMKPV QMVP AISQNW TFHGPATGQ AAANWIAFG RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQLGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVWMSF AQAAVNPVIVC FLNKNLKKK LRTHAPCWGT GGAPAPREPY CVM gagctctgc cacagactag agcagggaag ggggggaaag cggcgataga ggttagcagg aatgttaat latcaggagc aggaaacaga ctaggggcat gcccaggctc acacaggccc tcataggccc aggttccca gtagggagga aacaggagc tggacttc tctctttt ccttcctgc tctagctc aggtcagc cgtcgtgag gaattccaa cgttttag tggcactgt ccctgggcat ggttaagcc tctcagacc cttctgccc aacacccca aactctct tgaataat atcatataa atgctatt cacatgatt cttcattgc atcagccac tctcgtgag cagacthacc tgaataatt aagcaagaaa acagggcttag gggagtaag taacttccc agtcacacg ctagtgagca ctaggtctcgg gactccggcag cctcgtct tctctctt ggacacccat gctgattccc tgcctatg ccacttcca gggccctgc ttggggccc aagggaacac ttittgcaga ggggggggc cttgcacg ttgggaacag aggcagctct agtttggct cgtcactc tggggacagg aaactccag ctctctctt ggggtggagg cttggggctg cctccatag cggggtaact ctccctc cctctct cgtccattt gaggccct tacaggcggg cgcagcaca tatccctgg cattcaggct gttcctggc cggcccacc taccaccaat ctggaccaac aggaaagggg tgggttgc ttccacac cctcctcgt aggtgtgggg gtagggcagg gctcaccaga gggccagag aagcactaa ttctacagc tcttctag agcctcagt gggctcgtc agcttggcag acacttgcg accctcttc tcagccac caatcttga tggccttga tggccact caatctct gctctccac ccacttct cggggccaat gctcgggag gcagtgtgt gtagtctga tggcttcca ttcttcca allctagcc ctagggctca tgggttccct gggctatggg cttgggggg ccatggctt gctgggaaat ttggcgggtc tgggtgact gtagtaact gttccggagg cctcggccc accitcagac accctgct tcaacctggc tctggcggg cggggagctg cactcact cctctttgg gcaaggcag cggcacagg ctttactgg ccttgggag gttgctctc caagtggtt ctggaggcca ctgtctcaa cgtctatggc agcatcttc tcatcagc gctgaggtt gctgctact ggggtgtgtggc calggctggc gggccagcca cccacttc actctctgg gcccgaag ccacctggc agttgtggggc gggcgtggcc tgggtgaggt gcccacagct gcttggggg tggaggggtt gttgtgtt gttgctt gctgctc ttccacag aggttactggc tggggggccta cagctggcag agggtgtgtc tgggtttcat gttgcttgg ggggttcatca ccaacagcta cctgctgctg cgggcttcc tgcaggggc gcaacggggc cggcagggaca gcaagggtctt gggccgtctt gttgggtt cttctctc tgcgtgtt ccaacat ggtcacttc tgggtgttcc tgggtgaagt tgaactgtt ccttggaca gtacltca tclatocag acgtatgt tccctgtac tacttctg gcaacagca atagcttcc caacctgtt cgttactgt tcttggggc gggggccgg caggctctgg caggggacctt caggggatct cgggtggggc tgggtggcca ggggtggccct </p>	A	Unidentifi ed

Accession	Gene	Protein	Sequence	Species
617	190742	G Protein-Coupled Receptor H7TBA62	<p>ENSP000000201 359</p> <p>MPPLNTSASP PTFFWANASG GSVLSDADAP MPVKFLALRL MVALAYGLVG AIGLLGNLAV LWVLSNCARR APGPSDFV FNLALADLGL ALTLPFWAAE SALDFHWPF GALKMVLTA TVLNYYASIF LITALSVARY WVVAMAAGPG THLSLFWARI ATLA VWA AAA LVTVPTA VFG VEVEGCVRL CLRFPSPYV LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRQRRQD SRVVARSVRI LVASFELCVF PNHVTVLWGV LVKFDLVPWN SFYTIQITVY FVTTCLAHS NSCLNPVLYC LLRREPRQAL AGTFRDLRLR LWPQGGGWVQ QVALKQ</p>	Homo sapiens
618	190743	G Protein-Coupled Receptor GPRC5D	<p>NM_018654</p> <p>atgiacaagg acgtgatcga gtccacttga gactatttc tctcttga cgcgcagggg ccalggggca tcalltlega gtccctggcc atacttggca tctgtgtcac aattcttgca ctcttagcat ttctctct calgcgaaag atccaaact gcgaccagt gaatgtctc cccaccagc tctcttct ccttgatgtg cggggctct tggactatg ttggcttc atcagcagc tcaatcaaa aactgcctcc gtacgtact ttctttgg ggtttcttt gtctctgt tctatgct cttagctcat gcttccaalc tagtgaagct ggctcggggg tgttctct tctctggac gacaattcgt tgcattgca ttggttgcag tctgttgcag atctattgt ccacttgatga tgtgactctc atcatgacca gtagttagat gtttggtaat atgacacact ggcacttcaa tgttggactt gttgactoc tggctatgt ccttctctgt atggccctca catcttctgt ctccaaagcc accttctgtg gcccgtgtg gaaacttgaa gacatlggaa ggctcatctt latcatgtg ctcttcca tcatcatct ggtgtgtgtg atctcatgc tcttgagagg caaocccgagc ttcaagcag agcccatgtg gtagcagaccgg gtctctgca ttgcttggg caccacagca tgggttttcc tgcctgctga catcttctct gagctctgca ttcttacaag atcgtgtaga cagggaatgg ctttacaagg caatgcctgc cccgtcacag cctaccaaa cagcttccaa gtagagaacc agtagctctc cagagcccca gacagtatg gacgttagga gtagttagca ttacttcat atgttactoc callcagccg cagactgtg atccacaca aggtgtgttc atcccaggg ctactaag cccacagcaa</p>	Homo sapiens

619	190743	G Protein-Coupled Receptor GPRC5D	NP_061124.1	gagcaggag gagataaa MYKDCIESTG DYFLLCDAEG PWGIIIESLA ILGIVVTILL LLAFLLMRK IQDCSQWNVL PTQLLFLLSV LGLFGLAF AF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLVRG CVSFSWTIL CIAIGCSLLQ IIHATEYVTL IMTRGMFVN MTPCQLNVDF VLLVYVFLF MALTFVSKA TFCGPCENWK QHGRLLFTV LFSIIIWVW ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPQTQECF IPQAKLSPQQ DAGGV	P	Homo sapiens
620	190744	G Protein-Coupled Receptor GPRC5C	NM_018653	cgggcagggtg ggggaactcc cgaagagtg ccttggtcac agcaccttg aagacagcca ttggccatgg gggaccaacc agagccgtggc ctgggagacca gggatggccat ccaaaagcc ttggtgatgt ggcctgggaat ggcctctctc cgttccacg gggcttggggc ccaaggcccat gtccaccccg gctgcagcca agggctcaac cccctgtact acaacctgtg tgaacctct ggggcggtggg gcatgctct ggaaggccgtg gctggggcgg gcatgtcac cagcttgg ctcacatca tccctgggtggc cagctccccc ttgtgcagg acaccaagaa acggagccgtg ctggggagccc aggtattctt cctctgggg accctgggccc tctctgctt cgtgttggcc ttgtgtgtga agcccgactt ctcacctgt ggcctctggc gcttctctt tgggtgtctg ttggccatct gtctcttgg tctggcgggt cagcttgg cctcaactt cctggcccg aagaaccacg gggccggggg cttgggtgalt ttactgtgg cttctgctt gaccttggta gaggctalca tcaalacaga gtggctgalt atcacccggg ttggggggcag tggcgagggg gggccctcagg gcaacagcag cgcaggctgg gctgtgggct cccctgtgc cgttggccaac atggacttgg tcattggcact catctacgtc atgctgtctg tgcgtgggtg cttctggggg gcttggggccg cctgtgtgg cgttacaag cgttggcgta agcatgggtt cttgtgtc ctcaccacag ccacctcctt tggccatggg gtgtgtgtgg tgcctatgta tacttacggc aacaagcagc acaacgtcc cacttgggt gaccocacg tggccatggc cctgcgcgc aalgcttggg ccttctctt cttctacgtc atccccagg tctccagggt gaccaagtc agccacagc aaagctaccca ggggggacatg taccacccc gggggcggtgg cttatgagcc atcttgaaag agcagaaggg tgcagagcatg ttctgtggaga acaaggcctt ttccatggat gagccgggtg cagctaaagag gccgggtgtca ccaalacagc ggttacaatgg gcaagctgtg accagtgtgt accagccac ttgatgggccc ctgatgcaca aagtctcgtc ogaaaggagt tacgacatca tcttccacg gggccacggcc aacaagcagg ttgatgggccc tgcacactcg accctgggg ctagagacat gtaactggcc cagagccacc agggcgccac accgcccga gacggcaaga actctcagg ctttagaaac ccttactgt gggactgtt gggactgtt cagcgggtggc gaggagaggc ggggcgattt ggggagggcc ctgaggacct gggccggggc aaggagactt ccaaggctct cctcccttg gcaaggcagc aacatgtgc ccagatctgg aaggccctcc cttcttgcca gttttgggt ggggtgtcatg ggtgtcccca cccactctc agtgtgtg gactggagg gccaaccca gctcttggc aggaatcact ogggcggtcac actccagcca aalagtgtc tcgggggtgtt ggttgggagc ggcctatgt tcttgggaga ttccgtcaac ctcaagagagc ttccagggcg ctacgggctg gatctgtc cttgtgag aacaagggtt cctaataat acatttctg ttataaaa aaaaaaaa aaaa	A	Homo sapiens
621	190744	G Protein-Coupled Receptor GPRC5C	NP_061123.2	MGTPPEPLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFLV ILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFAV VKPDFSTCAS RRFLFGVLA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTLVEV IINTEWLIT LVRSGEVGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFGLAW PALCGRYKRW RKHGTVFLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLALAAANA WAFVLFYVTP EVSVTKSSP EQSYQGDMPY TRGVGYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQTEMALM HKVPSEGA YD IILPRATANS QVMGSANSTL RAEDMYSQAS HQAATPPKDG KNSQVFRNPY VWD	P	Homo sapiens

622	190745	G Protein- Coupled Receptor LGR7	NM_021634		<p>atgacatcgt gtctctgt ctctacalc taaatttg gaaaatatt ttctatggg ggtggacagg atgtcaagtg ctccttgcc tattccctt ggggaacat cacaagtg tgcctcagc tccgcatg taacgggtg gacgactg ggaatcaggc cgalgaggac aacgtggag acaacaatg atggccatg caattgaca aatattgc cagttactc aaaaatgactt ccaataacc ttgtgggca gaaacacctg aatgttgggt cgggtctgtg ccagtgcaat gtcttgcca aggtctggag ctgactg atgaaacca tttaggct gtccatgg ttctcaaa tgtgactg atgtcact agtggactt aataagaaag ctctcctg attgctcaa gaattatcat gatctcaga agctgacct gcaaaaacat aagataatc ccatctcat ctatgcttc agaggacga atagccttac taaactgat ctacgicala acagaataac ctccggaag ccgggtgtt ttgaagatct tcacagacta gaalggtcga taattgaaga taalcacct agtgaatt cccaccaac atttatgga cttaatttc ttattctt agtctgag aataacgtcc tcaccgtt acctgataa ccctcgtc aacacatgcc aagactatc tggctggacc ttgaaggcaa ccalatccat aattaaana atttgactt tattctgc agtaaltaa ctgtttagt gatgaggaaa acaaaaata atcactaaa tgaataact ttgcacct tccagaact ggaatgatt gattggaa gtaataagat tgaatactt ccaccgcta tattcaaggaa ccgaaaggag ctgtcacaat tgaatcttc ctataaca atccagaana ttcaagcaaa ccaattgat tatctgtca aactcaagc tctcagccia ggaaggattg aaattcaaa tatccacaa aggatgtta gaccttat gaactctt cactatct cactatatt ttaagaaat ccagttactt ggggtatgcac cacatgtcg cagctgaaa ccaacacctg atggaaattc atctctag aatctgtg caagcattat tcaagagata ttgtctggg tgtatctg agtacctg ttggaaa cttttgat ttgactga cctataca ggtctgagaa caagctgat gccatgcaa tcttctct ctgctgccc gactgtaa tgggaataa ttatctg atcggtgggt ttgacctaaa gttctggga gaatacaata agcatggca gctgaggag gagaatc atgtcagct tgaaggatc ttggccatc ttgccacaga agtatcagt ttactgaa cattctgac atgggaaaa tacaatgca ttgtatoc tttagat gtagagactt gaaatcag aacaatcag aactatcga gttctgaltc tcattggat tactgttt atagtgtt tcatccat gagcaataag gaatttca aaactacta tggcacaat ggaatgct tcccttca ttcaagat acagaaaga ttggagccca gattattca gtagcaatt ttctgtat taattggcc gcatlata tcatgttt ttctatgga agcatgttt atagtgtca tcaaggtcc ataacagcaa ctgaatacag gaatacagt aaaaaagaga tgatctgccc caaacgttt ttctatag tattatga tgcattatc ttggatacca tttagt gaaatttct tcatgcttc aggtagaat accagttacc alaactctt ggggtggt ttattctg ccatiaaca gttcttgaa cccaatttc tatcttga ccacaagacc attaaagaa atgaltalc ggttttgga taactacaga caaagaaaat ctatggacag caaaggcag aaaacataig ctccatct catctgggtg gaaatgtggc cactgcagga galgccacct gagttaatga agcggacct ttcacalac cctgtgaaa tgcactgat tticaatca acgagactca attctatc atga MTSGSVFFYI LIFGKYFSHG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV DDCGNQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV PVQCLCQGLE LDCDETNLRA VPSVSSNVT MSLQWNLRK LPDFCFKNYH DLQKLYLQNN KITSISYAF RGLNSLTCLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL SRISPPTFYG LNSLLVLM NNVLTRLDPK PLCQHMPLRH WLDLEGNHII NLRNLTFISC SNLTVL VMRK NKINHLNENT FAPLQKLDL DLGSNKIENL PPLIFKDLKE LSQNLNSYNP IQKIQAQNF YLVLKLSLSL EGIEISNIQQ RMFRPLMNL HIYFKKFQYC GYAPHVRCK PNTDGISSLE NLLASIQRV FVWVSAVTC FGNIFVICMR PYRSENKLY AMSIISLCCA DCLMGYLFV IGGFDLKFGR EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLTFLTLEK YICIVYFRC VRPGKCRIT VLILWITGF IVAFPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQIYS VAIFLGINLA AFIIIVFSYG SMFYSVHQA ITATEIRNQV KKEMILAKRF FFIVFTDALC WPIFVVKFL SLQVEIPGT ITSWVVFIL PINSALNPIL YLTTRPFKE MIHFRWYNR QRKSMDSKGQ KTYAPSFIV EMWPLQEMPP ELMKPDLTFTY PCMSLSISQS TRLSYS</p>	A	Homo sapiens
623	190745	G Protein- Coupled Receptor LGR7	NP_067647.1		<p>atgacatcgt gtctctgt ctctacalc taaatttg gaaaatatt ttctatggg ggtggacagg atgtcaagtg ctccttgcc tattccctt ggggaacat cacaagtg tgcctcagc tccgcatg taacgggtg gacgactg ggaatcaggc cgalgaggac aacgtggag acaacaatg atggccatg caattgaca aatattgc cagttactc aaaaatgactt ccaataacc ttgtgggca gaaacacctg aatgttgggt cgggtctgtg ccagtgcaat gtcttgcca aggtctggag ctgactg atgaaacca tttaggct gtccatgg ttctcaaa tgtgactg atgtcact agtggactt aataagaaag ctctcctg attgctcaa gaattatcat gatctcaga agctgacct gcaaaaacat aagataatc ccatctcat ctatgcttc agaggacga atagccttac taaactgat ctacgicala acagaataac ctccggaag ccgggtgtt ttgaagatct tcacagacta gaalggtcga taattgaaga taalcacct agtgaatt cccaccaac atttatgga cttaatttc ttattctt agtctgag aataacgtcc tcaccgtt acctgataa ccctcgtc aacacatgcc aagactatc tggctggacc ttgaaggcaa ccalatccat aattaaana atttgactt tattctgc agtaaltaa ctgtttagt gatgaggaaa acaaaaata atcactaaa tgaataact ttgcacct tccagaact ggaatgatt gattggaa gtaataagat tgaatactt ccaccgcta tattcaaggaa ccgaaaggag ctgtcacaat tgaatcttc ctataaca atccagaana ttcaagcaaa ccaattgat tatctgtca aactcaagc tctcagccia ggaaggattg aaattcaaa tatccacaa aggatgtta gaccttat gaactctt cactatct cactatatt ttaagaaat ccagttactt ggggtatgcac cacatgtcg cagctgaaa ccaacacctg atggaaattc atctctag aatctgtg caagcattat tcaagagata ttgtctggg tgtatctg agtacctg ttggaaa cttttgat ttgactga cctataca ggtctgagaa caagctgat gccatgcaa tcttctct ctgctgccc gactgtaa tgggaataa ttatctg atcggtgggt ttgacctaaa gttctggga gaatacaata agcatggca gctgaggag gagaatc atgtcagct tgaaggatc ttggccatc ttgccacaga agtatcagt ttactgaa cattctgac atgggaaaa tacaatgca ttgtatoc tttagat gtagagactt gaaatcag aacaatcag aactatcga gttctgaltc tcattggat tactgttt atagtgtt tcatccat gagcaataag gaatttca aaactacta tggcacaat ggaatgct tcccttca ttcaagat acagaaaga ttggagccca gattattca gtagcaatt ttctgtat taattggcc gcatlata tcatgttt ttctatgga agcatgttt atagtgtca tcaaggtcc ataacagcaa ctgaatacag gaatacagt aaaaaagaga tgatctgccc caaacgttt ttctatag tattatga tgcattatc ttggatacca tttagt gaaatttct tcatgcttc aggtagaat accagttacc alaactctt ggggtggt ttattctg ccatiaaca gttcttgaa cccaatttc tatcttga ccacaagacc attaaagaa atgaltalc ggttttgga taactacaga caaagaaaat ctatggacag caaaggcag aaaacataig ctccatct catctgggtg gaaatgtggc cactgcagga galgccacct gagttaatga agcggacct ttcacalac cctgtgaaa tgcactgat tticaatca acgagactca attctatc atga MTSGSVFFYI LIFGKYFSHG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV DDCGNQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV PVQCLCQGLE LDCDETNLRA VPSVSSNVT MSLQWNLRK LPDFCFKNYH DLQKLYLQNN KITSISYAF RGLNSLTCLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL SRISPPTFYG LNSLLVLM NNVLTRLDPK PLCQHMPLRH WLDLEGNHII NLRNLTFISC SNLTVL VMRK NKINHLNENT FAPLQKLDL DLGSNKIENL PPLIFKDLKE LSQNLNSYNP IQKIQAQNF YLVLKLSLSL EGIEISNIQQ RMFRPLMNL HIYFKKFQYC GYAPHVRCK PNTDGISSLE NLLASIQRV FVWVSAVTC FGNIFVICMR PYRSENKLY AMSIISLCCA DCLMGYLFV IGGFDLKFGR EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLTFLTLEK YICIVYFRC VRPGKCRIT VLILWITGF IVAFPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQIYS VAIFLGINLA AFIIIVFSYG SMFYSVHQA ITATEIRNQV KKEMILAKRF FFIVFTDALC WPIFVVKFL SLQVEIPGT ITSWVVFIL PINSALNPIL YLTTRPFKE MIHFRWYNR QRKSMDSKGQ KTYAPSFIV EMWPLQEMPP ELMKPDLTFTY PCMSLSISQS TRLSYS</p>	P	Homo sapiens

624	190748	GPCR Ls190748	AX147756	A	Homo sapiens	<p>gctcgggggt ggggagatgct gggagacagggt tcaatggct ggaagcaagggt cttcalccc cctagctctt gctgatctag ttggggctcc agagtgggga gggagaaaggc acttggaaac ttcttgccc ttactgtctt agccalcaa ctttgagctg gagatagta cgaatggaca ggaactttcc ctggggcctct ctggggccaca attcctggcc gaggagaaaga gggaggaaatga gggtgagcacc ttctactc ctggggccat ggtgtagtagc tgcagtcgca cttctcttg ccaataggca tagatgagtg gggttagagcag gggagtggcc acgcccagca gccacaggta ccgtttccagc actaggttaga ggttagacatc ctggcaggcc acctgcacaa tgcagtgat aaggtaggggg gtcacaggata gggcaaaagt cccaatagta acagacacag tacggtagagc tttgaagtcg ctgggagtcg gttgggagtcg ataacctca gccatggctc ctgcatgctc calctttcga atctgctggc tgtgcatgga gggcaatctg agcatgctg agtagaagaa gacaagagg agcatggctg ggaagaaaggc aacggcagggag agggctagca gaaagtgagg gtagaataca gcaagaaagg tgcactggcc ttgtaggca gttgctggga acatggggat tccgggtggg aggaagocaa tgaagtaga cactaacac agcccggcaa tgcaggcccc gggcacgaac ccactatga tttcaagta ggggaaggc tctgtatgg caaggtacct gtaaaagggt atcagatga ccgttagggac agtagggcagct gggtagggag tgaataatgc calccagagg ctgcacaggg tcttctgtgt gggccaggaa gggctgggaga gcttgctgt gagtaggcca gtagaggcca caccaalcaa ggtgtcagcc acagccagat tcaaggtaga gcaagagactg acaccatcat tctgtggat caacagcagc acagccacag ccactatgt gtagtagca atgtagagg agggccaggac agcaaggatc actccaaag aaaaagatga ttcatgtct gaaagtgga ggaacttact taccaggga tg MESSFSGVI LAVLASLIA TNLVAVAVL LLIHKNDGVS LCFTLNLAVA DTLIGVAISG LLTDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMILT FDRLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQQT YKQCSFFAV FHPHFVLTLS CVGFFPAMLL FVFFYCDMLK IASMHSSQIR KMEHAGAMAG GYRSPRTSD FKALRTVSVL IGSFALSWTP FLITGIVQVA CQECHLYLV ERYLWLLGVG NSLLNPLIYA YWQKEVRLQL YHMALGVKKV LTSFLFLSA RNCGERPRE SSCHIVTISS SEFDG</p>
625	190748	GPCR Ls190748	CAC39548.1	P	Homo sapiens	<p>atggccaact ccacaggctt gaaagcctca gaaagtcgag gctcgttggg gttgactcg gcaagctgctg tggaggtggg ggcactgctg gggcaacggcg cgtctgtgtgt cgttgggtgtg cgtacggccgg gactgcggga cgtgctctac ctggcgccac tgtgctgt ggaactgtctg gggccggcctt ccaatagcc gctggggcctg ctggccggcac cgtccggccgg gctggggccgc gttcggcctgg gcccggccc atggccggcc gctcgttccc tcccggccg tctgctggcc gctcggccg gctcggccg ctggtgtcga cgacttggc ctggcagctt accgctcat cgtgcacccg ctgcggccag gctcggccg gctcggccg ctggtgtgtg ctggtgtcga ccggcgtgtg gggccggcggc ggaactgtgg gggcgtctc cgtgctggc ccggccggcc caccggccc tgcctgtgt cgtgtgtg tctgtgtg gggcctggc ccttccggc cgtctgtggc cctgtgtggc ttgggtgtg ccggcctct gctgtggc gctacggcg gcatctgt ggtggcggt cgtcgtggc cgtcgtggc cgtcgtggc cgtcgtggc cgtcgtggc gactcgtc ggaactgtg gtagccggc ttccatctt gccggcgtc cggccctggc tggccggcg cgtcggcg cgtcggcg ctggcccg cgtgtggcgt gggccaattt gcaagcctgt ggtgtgctta tggctgtggc tggctgtggc cgtcgtggc ggccgggaa gccgaagcgg ctgcatctg ggtgtgctac tgggtctgg cgtgtgctac cttctgtac ggtgtgtg agcggccgt ggtgtgca ctggccggc tcttcggcg tgcagctg tgcagctg ggtgtgctg ggtgtgctg tgcagagcc tgcacccg gggcacttt gcaatgctc cagagacccc cagagggccc tggcgtggc cttctggc cttcagaaca gaccccgag tggcaggag gggcgagccc gcatatagg gggccactg agagtctt cttctga MANSTGLNAS EVAGSLGLIL AAVVEVGALL GNGALLVVVL RTPGLRDALY LAHLCVVDLL AAASIMPLGL LAAPPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAAALG LARYRLIVHP LRPGRPPV LVLTAVWAAA GLLGALSLG PPAPPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGFVVAR</p>
626	190749	G Protein-Coupled Receptor GPR62	AF317653	A	Homo sapiens	
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1	P	Homo sapiens	

629	190774	Histamine H4 Receptor	NP_067637.2	<p>acatttatt agtttggtta tttttttt tttaaaaaa tttttttt agatgggggt ctgtctgt tggccagca ggaatgcagt ggcatgct cagctcactg cagccctgac tgcctaggct ccagcaatct tcttactga gccctcagag tagctgggac cgaggcact tggccaccag cccactaaa aatttttaa atgttgct tcttgaagt gtctctgac tttttttt acaaatitc atttttca tagttaatt catctcctg gtaagattt atgttggtt tttaatac ttgcagtc ttacaggtt tggatgtt calgttct agaaacttta aacctttaac ttcaacatt aaaaataaag tcttttaag atagagtc ttgaagaatg acaataatg tatataact tatgcttac attaaagtc aataagaa atacatgtt aacatcaat aataatitaa aaaaattgag aataaaact tcaataatgc aaaaaaaaa aaaaaaaa</p>	P	Homo sapiens
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>MPDNTNSTNL SLSTVTLAF FMSLVAFAM LGNALVILAF VVDKNLRHRS SYFFLNLAIS DFFVGVISIP LYPHTLFEW DFGKEICVFW LTTDYLLCTA SVYNVLISY DRYLSVSNV SYRTQHTGVL KIVTLMVAVW VLAFLVNGPM ILVSEWKDE GSECEPGFFS EWWYLAITSF LEFVIPVLV AYFNMYWYS LWKRDHLSRC QSHPGLTAVS SNICGHSFRG RLSSRRSLA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVLHQR EHVELLRARR LAKSLAILLG VFVVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL CHKRFQKAFK KIFCIKKQPL PSQHSRSVSS</p>	A	Homo sapiens
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	<p>ccagagctta gaactaccca gagcaagacc acagctgggt aacagctcag gagcagacaa galggagaca aattctctc tcccacgaa catctctgga gggacacctg cgtatctgc tggctatctc ttcttgata tcatcatta tctgttatt tgcagtcact ttgtctcgg ggtctctggc aacgggctg tgaatgggt ggcctggattc cggatggacac acacagtcac caccatcgt tacctgaacc tggcctggc tgaatctgt ttacacctca ctltgcaat ctacatgc aggaagcca tgggaaggaca ttggcttcc ggctggcttc tgtgcaatt cgtcttacc atagtgagaca tcaactgt cgggaagtc ttcttgatc cctcatgic tctggaccgc tgtgttgcg tccigatcc agctggacc cagaaccacc gcaccgtag cctggccaag aagggtatca ttggccctg ggatgaggt ctgtctctca catggcagt tatcattgt gtagctacag tacttgtaa aacgggggaca gtagcttgca ctftaacit ttgccttgg accaagacc cttaaagag galaaatgt ggcgttgcca tgtgacgtt gtagggatc atccggtica tcatggctt cagcgcaacc atgtcatgc ttgtctcag ttatggctt attgcccca agatccaca gcaaggcttg attagttcca tgctccctt acgggtctc tcttttgc cagcagcct ttctctgc tggccccat atcagggtt gggccitata gccacagica gaatcctga gttatgcaa ggcattgaca aagaaatgg tatgtagtg gtaggacaa gggccctggc ctcttcaac agctgcctca acccatgct ctatgtctc atggccagg acttccggga gaggctgac caegccctc ccgccagtc ggagaggcc ctgaccagg actcaacca aaccagtag acagttacca atttactt acccttgca gagggtgagt tacaaggcaa gtaggagggg agctggggga cacttccag ctccagctc cagctctgc taccitgag ttaggctgag cacaggcatt tctgtctat ttaggatta cccatcacc agaaaaaaa aaaaaagcct tigtgtccc tgaattgggg agaataaaca galatgagt t</p>	P	Homo sapiens
632	190824	Formyl Peptide Receptor-like 2	NM_002030	<p>METNSSLPTN ISGGTPAVSA GYLFDIITY LVFAVTFVLG VLGNGLVIVW AGFRMTHVT TSYLNLVA DFCFTSLPF FMVRKAMGGH WPGWFLCKF VFTVDINLF GSVFLIALIA LDRVCVLP HP VWTQNHRTVS LAKKVIIGPW VMALLLTLPV IIRVTTVPK TGTVACTFNF SPWTNDPKER INVAVAMLTV RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLIKSRPL RVLFSVAAAF FLCWSPYQVV ALIA TVRRE LLOQMYKEIG IAVDVTSALA FFNSCLNPM YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK atggaaacca actctccat tctctgaat gaaactgagg aggtgtccc tgaagctgt gggcacaccg tctgtggat ctctcatg ctagtcaccg gagtccact tgtctcggg gtctcgggga atgggctgt gacttgggt gcttgattcc ggaatgacg</p>	A	Homo sapiens

(FPRL2)

633	190824	Formyl Peptide Receptor-like 2 (FPRL2)	NP_002021.2	<p>cacagtaac accatctgt accigaacct ggccctagct gactctct tcagtgccat ctiaccatc cgaatggct cagtggccat gagagaaaa tggcccttgg cgtactct atgaagtta gttcatgta tgaatagat caacctgtt gtcagtgtt accgatcac catcttct cttggaccgt gtaattgt cctgcatcca gccggggccc agaacatcg cacatgagt ctggccaaga gggtgtagac gggactcgg atttaccat tagtcttac cttaacaat ttaattctt ggaataaat aagtiactac aatggggaca calactgtat tttaactt gcatctggg gtgacactg tgaagaggg tgaacgtt tcaatacat ggccaaggc ttctgattc tcacttcat tatggctc accgtggccta tgcatacat cacagtcgac tatggagata tgcgtgcca aattcacaga aaccacalga ttaaaccag ccgtcccta cgtgtctg cgtgtctg ggtcttct ttaattgt ggtcttct tgaactaat ggcattctaa tggcagctcg gctcaaaag agtgtgtta atggcaata caaatcatt ctgtctga gaaagactga ttegtctt gcccactgt ttggagaggg acagctgct caaccaatt ctactgt ttatgggtg taacttcaa gaaagactga ttegtctt gcccactgt ttggagaggg ccgtgactga ggtccctgac tggcccca cagcaaac acacacct tctgttac ctctgagga gacggagta caagcaatgt ga</p> <p>METNFSIPLN ETEEVLPEPA GHTVLWFSL LVHGVTFVFG VLGNGLVIWV AGFRMTRTVN TICYLNALA DFSAILPF RMVSVAMREK WPFASFCLKL VHVMDINLF VSVYLITIA LDRICVLHP AWAQNHRTMS LAKRVMTGLW IFTIVLTLPN FIFWTISIT NGDYCIFNF AFWGDTAVER LNVTIMAKV FLILHFIIG TVPMSTIVC YGIIAAKIH NHMIKSSRPL RVFAAVVASF FICWFPYELI GILMAVWLKE MLLNGKYKII LVLINPTSSL AFFNSCLNPI LYVFMGRNFQ ERLIRSLPTS LERALTETVPD SAQTSNTHIT SASPPEETEL QAM</p>	P	Homo sapiens
634	190948	EMR2 Hormone Receptor	NM_013447	<p>cggagacagg acagccctg ccaactcat ctctccctg ctgtctcgc cggcagctca gctggaaacca tggggaggccg cgtcttct gttcttct cacttctgt ctggctgact ctgcggggag ctgaataacca ggaactccagg ggcctggccc gggtgtgccc tcaggactcc tctgtgttca atggccaccg ctgtcgtcgc aatccagggt tcagctcttt ttctgagatc atccacccc ccatggagag ttgtgagac atcaacagat gtgcaacact gtctgaatgt tcatggggaa aattctcggg ctgtgggaac acagaaggga gctacactg cgtgtgacg ccaggtatag agctgttct tgggggcaaaa acattcaaga atgaagcga gaacacgtgt caagatgtg acgaatgtca gcaagaacca aggtctctgta aaggtctacgg cacttgcgtc aacacctcg gcagctacac gtgccagtc ctgccttgct tcaagctcaa accgtggag ccgagctct gcaagatgt gaatgaatgc acctcgggac aaaaaccatg ccacagctcc accactgccc tcaacaactg gggtcagctat cagtgccgt gcccggccgg ctggcaaccg atccgggggt cccccaatgg cccaacaat accgtctgtg aagatgtgga cgaatgtcagc tccggggcagc atcagtgtga cagctccacc gtcgtcttca acactgtggg ttcaatacag tgcctgtgccc gccaatggc gaagcccaaga caccggatcc cgaataacca aagggacact gtcgtgtgaag atatgacttt ctccacttgg accccggccc ctggagtcca cagccagagc cttccgat tcttgacaa agtccagagc ctggggcagag actaacaagg aggtctggcc aataacacca tccagagcat cttaaggcg ctggatgagc tctggaggcg ccttggggag ctgggaagccc tggcccgctt acagcagcac tctgtggcca gtcacttctt ggaatggccta ggaatgttcc tcaagagcct ggaagaagac ctccaatg ggctgtgaa cttaagtat cctgcaggca cagaatgtc cctggaggtg cagaagcaag tgaacagagag tctcaccttg agacagaatc aggcagatgt gcaagctgac tgaatcagg cacagaatc tctgtaccca ggcccttctg tctgtggcc tcttccatt ccaaggagag gcaagtgt gctgtgaggc ccttggctcc tggaaactga gaagcagatg ctctcagag agacacacca gggtctgtcg caggagcgct ccccatct gcttcagag gttactctg ctttctgag caacaacgac acccaaaacc tcaactccc agtaacttc accttccc accgttca gtaatccaga cagaaggtg tctgtctt ctggagagcat ggccaagaatg gattgtgtca ctggggccacc acaggtctga gcaataagg caccagagac accagacca tctgcccgtg caccacctg agcagcttgg cgtctctcat ggccactac gattgtcagag aggaagagatcc cgtgtctgact gtcatcact acatgggggt gaggctctct ctgtgtgccc tctcttggc ggcccttctg gtaaaaggccat ccaagaacac</p>	A	Homo sapiens

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaacacac gcatcagca gctctgctc tgcctcttc tggcccaact cctctctc gtaggaaltg atcaaacagg acacaaggig ctgtgtcca tcatgccgg tacttgcac tatctacc tggccacct caccitggag ctgtggagg ccctgaacct ctctcact gacaggaaac tgaaggiggt caactacac agcalcaaca gattcalgaa gaagcicalg ttccctgigg gctacggagc cccagctgtg acagtgggcca ttctgcagc ctccaggct cactttatg gaacacctc ccgctgtg cccaaccag aaaaaggatt latatgggc ttcttggac ctgtctgcg catctctt gtagaattag ttctttct ggtagctctc tgaatttga aaaaagact ctctccctc aatagtgaag tgcacacct ccggaacaca aggatgtctgg cattaaagc gacagctcag ctgttcatcc tggctgtcac gtaggtctgt ggcattgic aggtgggtcc ggcgtccggg gcatgggct acctttcac catcaaac agcctgcagg ggtttctcat ctctgtgtg tacttgctcc tccagccagca gggtccgggag caatatggga aatgggtcaa agggatcagg aatgtgaaa ctgagcttga gatgcacaca ctctccagca gtgttaaggc tgaacctc aaaccagca cgttatacta gaaaactt ctgataaaga tcttccct tgcgggtgg aaaatcigaa caatcttga gcatctaga ggggaagaa agactttgt tctgtgt tcaagaatt caccatgca gcaatatgaa ggatgtatg gaaggcgtc tggcattca attctgcag aaaccggaaa tcttccagc cctgcaatgt gctcalcaaa ctctcagcat atggaggcc agctgtggcc catacttgg tcaacttgaa gcaaatatt tatgaagcta tagaaggtta agaccttct cacagctct cctctaca aagactctc caatcttaa aatgaagcag gaaaacagc ctgaaggagc ttcalaccg acaacatcg aaggactag aatgtcaca ccacgactg gatctttaa tttttgt tttttgt tgtcttag ttctacgggt ttgattatt agtcalgta aaaaatgta ttactcac atagatcaag agagacacagg ctctgctt catggaggti taaggggaaa atgaagggc tctgcagct agagtgtact cagaagccga aatcttga aatcgtgt ctactgttag gcaattgaag tataaatat ttataaaca ctgtctct tcatctcac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGGRVFLVFL AFCVWLTLPG AETQDSRGCA RWCQDSSCV NATACRNP FSSFEIIT PMETCDDINE CATLSK VSCG KFSDCWNTEG SYDCVCSGY EPVSGAKTFK NESENTCQDV DECCQNRLC KSYGTCVNTL GSYTCQCLPG FKLPEDPKL CTDVNECTSG QNPCHSSTHC LNNVGSYQCR CRPGWQPPG SPNGPNTVC EDVDECSSGQ HQCDSTVCF NTVGSYSRCR RPKWPKRHGI PNNQKDTVCE DMTFTWTPP PGVHSQTLR FFDK VQDLGR DYKPLANNT IQSILQALDE LLEAPGDLET LPRLQQHCV SHLLDGLDV LRGLSKNLSN GLNFSYPAG TELSLEVQKQ VDRSVTLRQN QAVMQLDWNQ AQKSGDPGPS VVGLVSPGM GKLLAEAPLV LEPEKQMLLH ETHQGLLDG SPILLSDVIS AFLSNNDTQN LSPVTFIFS HRSVIPRQKV LCVFWEHGQN GCGHWATTGC STIGTRDTST ICRCTHLSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLLAALTFLL CKAIQNTSTS LHLQLSLCLF LAHLLFL VAI DQTGHKVLCS IIAGTLHYLY LATFTWMLLE ALYLFLTARN LTVVNYSSIN RFMKKLMFPV GYGPAVTVA ISAA SRPHLY GTPSRCLWLP EKGFHWGFLG PVCAIFSVNL VLFLVTLWIL KNRLSSLNSE VSTLRNTRML AFKATAQLFI LGCTWCLGIL QVGPAARVMA YLFTIINSLQ GVFI FLVYCL LSQQVREQYG KWSKGIRKLK TESEMHTLSS SAKADTSKPS TVN</p> <p>gcatctct catatccgt ggcgtcagga agccctctt gaactctgac ttcatgtct gctgcgggtt cggccattt ttctatac ctctgacagc tgcgaggtca tctgtctct ggtttctc caagcagac aagtgggggc tctggaaagg ttaaggagc tcagtggoca ccatatct ttgcatctt cctgagaagt gagaagtga aggggaagcag gaagcccat ggtcagattg aagggaaggac tttttgtt cttttttt ttgtgaaat ggaagctcgc tctgtatc aggcggaggt gcaagtgtgc gatctcagct cactgcagcc tccactct ggggtcacat gattctctg cctcagccic ccaagtagct gagactacag gcaatggcca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	<p>ctacaccacg ctacttttg tattttatg agagacggggg tttaacatg ttggccaggc tgggtctcaaa ctgctiaacat caagtgatct gctccctca gctcccaaa gtgcttgggag taccggatag aaccacaca accgtccagg aattttatg tttagcttt tgcaggagac ttcaaggaaa ggaagacatc cctgtccag gaaacgggga aggggacat ttctgcatg ctgggttcc ccttggcag gggtggggcag agggcatcat gttctgtc cctcactct gctccatg ctacggctgc cagctcggcc tcaatttg gtgtiaaag tggaaactgaa tagtagctgt ggaagagatag gaaagaggga gtggcaatc ccttggccag atcalaalc cagatcagc agggtaacca catgggcaag cacaaggtag gtgcttgggg aagggggag tagtggtat tctgtgtat accaaggga catttgat ttgtctct accaaagaa atggagaatt ggttgacctt aatggaaacca gtccctttaa gtaaggggag gaaagggggt gctgggaagt gggccttcc ccaccacta gatacatgt tgaatgaa ccaaggacag agtgcttggcc ccttggcat ttactatg ggccttcta aatcatgag ttactaac caaacocaga ccaaggact agtcacagct ccaaciac cttctatla atctaaac aagcgaac aaacacaaa agatatac agatatac ccaatctgag ccaatttcc ttcttggct accatactc ctctctat atgatacat tcaacttt gtcaatla ccagctiaga cctgcatct ggaggacac cagcttct cactccac acccttct cctctcac tgccttcc tggcttct tcaatctc ccacctiaa ggagcttcc tgccttgg gttggcctgg aaaaacagat atccccct ctatggaggg ggttggtag gggtttag ccacacctc ggaagatggc ttctctgt ccttctgt gtgttactt ccttgggt gatttagcaa acagacacta gacttggggc cagggcttgg gcatggggac agatccaggg ataggctaca ccacctgg cttgacctgg gattggcatc agcttcaac cagtcttggc caagcttgg aagcttccc gacggccatg aacatacat ctttgcagc accocctca ctatggtag agttatctc tcttggct alcatctg tgcagggg gctggctgtg gggcttccc gcaacagctt tgggttggg agtatcttga aagggatgca gaaagcctct gtcactggcc tgaatgggt gaaactggcc cttggccgac tggcctgatt gctcactt ccttcttcc ttacttct ggcccaaggc acctggagt ttggatggc tgggttggc cttgtgact atgtctggg agtagcatg tacggcagc tcttcttat cacggccatg agctatgac gctcactgg ggttggccgc ccttgggt ccaagaaagt acgacacaa gctatggccc ggcgggggt ggcaggcalt tgggttgggt ccttctgt ggccacacc gctcggct accgacagat agtgccctgg aaaacgaaca tgaagctgt cttccggcg taccagcg aaggggcagc ggcttccat taaatctg aggtgttgc gggcttctg ctggcctcc tgggttgggt ggccagctac tgggacatg ggttggctggc acaggccggc cgttccggc gcaggcccg caccggccgc ctgggttggc tcaatctt gacttggcc gcttctggc tggcttaca cgttggtagc ctggcttggag cggcccgcc gcttggccggc caggccggcg ggttaggggt cgttggggag cggcttggcc tggcccgca cgttctcalt gcatcggct tcttggcag cagcgttgaac ccttctgt acgttggc cggccggcg cgttctggct cggccggcg gggcttctg gccaaagctg tggaggggac ggttggcag ggttggcag cggccggcg cgttctggct ggccagacgg ctaggagcgg cccggcgct ctggagcccg gcttccga gacttact gctccagcc ctcaagt aaacgaactg aacttggct ggttggagga ggccgactt ccttggcga gaatgtag tcttggcag ttcatctt ggaaggagag caggggcggt gaggggcggt agggcggtgg agggggag gggggaggg agtgggaagaa gagggaaga tggagcaag tggggggcga gttgagagcgt gctcagcct ggctccaca ggagcttla accattaaa ctgaagctg aa</p>	P	Homo sapiens
638	191039	Trace Amine	AF380185	<p>MNTTSSAAPP SLGVEFISLL AIILLSVALA VGLPGNSFVV WSLKRMQKR SVTALMVLNL ALADLAVLLT APFLLHFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLLITA MSLDRSLAVA RPFVSQKLRT KAMARRVLAVG IWVLSFLAT PVLAYRTVVP WKTNMSLCFP RYPSEGHRAF HLIFEAVTGF LLPFLAVVAS YSDIGRRLLQA RFRRRRRRTG RLVLILITF AFWLPHYVHV NLAEAGRALA GQAAGLGLVG KRLSLARNVL IALAFSSV NPVLYACAGG GLRSAGVGF VAKLLEGTGS EASSTRGGS LGQTARSGPA ALEPGPSESL TASSPLKLINE LN</p> <p>atgatgcct ttggccaaa tataataat atttctgtg tgaataacaa cttggcaaat gatgctgg cttcccgta cagttaatg</p>	A	Homo

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>gcccgaagtc atttggacg gccacctgat tttaaccctt tggttctgtg tttagagga alcclaaagt caaaacacca gagacttgaa gaacttgcaa actggcggtt laaataaacc ggtaattta ttccacaca gttgttltt gaanaagagc ttclataalg lataccctt tccacttica tgccttata talgaagcgc cligagtgig calgaaccna aggaataaac atigaagaag gaaaacaata tgiagaagt atttagaaa glaaccgtc ttugalgtg ctctctac cattlgtt ttgtaltta cccgggggca gigaagccct aggtgigccc accagtatga gtggcatta agacctcaag ccccttatt tttaaggggt tttaataa gcttttica aalggaggtg aatcttagcc agtgaagaaa aaataatt ttgtctctt ttitttcca cttuaagaa agaaattgg cgttgaggtg talagtga attttcagt ttgataatg algtcagag ccagcacgtg aatttga acaataaag ttatatac tttaggtac cgtttcacat ttttatagc algcacact gtgtclacc tcaatttga accaattat ttgcctalg aatgtatg cagctttgaa cattgtgac tgaatgggt gctaagaaga ataatgctt cgtttctc tttaacatt aaataatc aalgacalg atataatga acaciatlaa taccalgact gcatagctaa laltgctgc laltgcatgc tcttagatgc lagaactlat tgggcatgtg gtatactgaa gcgatacccg ttagacaagg alatttact tcttcagac accagaagaa alggcctca attattgaa aagagacaca gagacacctc tggclaccta gagttctcc tgtctgacc aattatgag aagctccca gtgggactl talccaca gtggatcac agtcaagacg galcaataat atgttggct cagcaaaagcc agctgtgctc tttaggggt taaacaagcc acagttaga aagcaacact gttttatgt agttcalata tattaccag acatttaaca tcaatatgt atagtgtgaa ggagggtataa taaactcagt calatlatgt gaacagtica aalggggaag tgttctaaa calattatt gaggttgc alattcact tgggttact aaatttact agaaatttt gaaatgcnaa atgtgtgaa alcacttat caattaaaa tgggaagaaa gtaatttaa taattttaa taatcalgt tcaacttct gactacttac cacaataat ctggggcccaa acagocctcag ttaacigcat aaltcaggaa caaaaccagc tggcttgggt gcagccctgg gcaatttcag ccaggacatt agggaccatt gtgtacatc tgaataatla tggaaagtgg gacagtuaa tggaaacaaa talgtcalc accaacaac agctgtcatt ttatlatc atocctttg tgcattgacc atttctct tactaacagt ttacttct cacttttcc ttgattcaaa tattaaagt cagaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>ggctgcaata actactact actgatalata ttaaaacct ccagaalcaa cagttalcatg glaaccaaca agaaalgcaa gocgtcgaca acctcactc tggcctggg aacaccagc tggcacacag agactacaaa atcacccagg tctcttcc actgcctac actgtctgt ttgttgg actatcaca aatggcctgg cgalagagat ttcttcaa atcccgagta aatcaact tattatttt ctlaagaca cagtcattc tgaattctc algtatcga ctittcatt caaaattct agtgalgcca aactggggaac aggaccactg agaaactttg tgtgtcaagt tactctgc attatttt tcaacaatga tatcagatt tcatcttgg gactgtatac tatcgalcgc taccagaaga ccaccaggcc atttaaaca tcaacoccca aaatctct ggagggtctag atttctctg tttcatctg ggcattalg ttctactct ctggccctaa catgattcg accaaccagc agccagagaga caagaalggt aagaaatgct ctittctaa atcagaatgic ggctagctt ggcatgaaat agtaaatat atctgcaag tcaatttctg gattaatlc ttatltgta ttgtatgta tacactcatt acaaaagaac tgaacggcg atacgtaga acgagggggg taggtlaaagt cccagggaaa aaggtgaacg tcaagttt cattatcatt gctgtatct ttattgtt ttttcttct cattttgoc gaattcttca caccctgagc caaacccggg atgtcttga ctgcactgcl gaaatactc tgtctatgt gaaagagagc actctgtgt taacttct aaatgcalgc ctggatccgt tcatctatt ttctcttgc aagtcttca gaaattcctt gataagialg ctgaatgccc ccaattctgc aacatctcgc tccagggaca</p>	A	Homo sapiens

643	191168	P2Y ₁₂ Platelet ADP Receptor	NP_073625.1	<p>ataggaaaaa agaacaggat ggtggagacc caaatgaaga gactccaatg laaacaaatg aactaaggaa alatttcaat ctcttgggt tcaagaactg ttaagcaaaa gogctaaagta aaaaattataa ctagcaagaaga agcaactaag ttaataataa tgaactiaaa gaaacagaag attacaaaag caattttcat ttaccltcc agtaigaanaa gctatctaa aataataaaa actgtagcig tattagcagc aaaaacaaag ac</p> <p>MQAVDNLNTSA PGNTSLCTRD YKIQVLFLPL LYTVLFFVGL ITNGLAMRIF P Homo sapiens</p> <p>FQIRSKSNFI IFLKNTVISD LLMILTFPFK ILSDAKLGTG PLRTFVCQVT SVIFYFTMYI SISFLGLTI DRYQKTRPF KTSNPKNLLG AKILSVIWA FMFLLSLNNM ILTNRQPRDK NVKCKSFLKS EFGLVWHEIV NYICQVFWI NFLIVIVCYT LITKELYRSY VRTRGVGKVP RKKVNVKVI IIAVFFICFV PFHFARIPYT LSQTRDVFD TAENTLFYVK ESTLWLTSLN ACLDPFIYFF LCKSFRNSLI SMLKCPNSAT SLSQDNRKKE QDGGDPNEET PM</p>
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>alggigaala atttccca agcigaaggt gtagagctgt gtiacaagaa cgtgaacgaa tctlgcatta aaactctta ctgcagggt cctgaltca tccclacgc cgtcttgggt ttggggcig tgcctggcagc gtttggaaac ttacttgclat cttcacttc aaacaactgc acacactac aaacttctg atugcgtgc tggcctgicg tggggagta cigtgaltgc cttcagcaca gtaggtctg tggagagcig ttggacttct ggggacaggt aciglaaatt ccatatcatgt ttgacacat ccttctgtt tgccttita ttacttat gctgaltc tgttgalaga tcatgtctg ttactgatcc tctgacctat ccaaccaagt ttactgtgc agtticagggt alalgalg ttcttctg gttcttct gicacalaca ctttticgat cttttacagc ggagccaacg aagaaggaaat tgaaggaaia gtagtctc taacctgt agggcgtgc caggctccac tgaatcaaaa cttgggtccia ctltgttct ttacttct tatacccaat gtcgccaatgg tgttatala cagttaaagata ttgttgggg ccaagcatca ggttaggaag atagaaagta cagccaagca agctcagtc tctcagaga gtiacaagga aagaagaga aaaaagaga gaaaggcgtgc caaaacttg ggaattgcta tggcagcalt tctgtctct tggtaocat acctctgta tgcagtgat gatgttata tgaatttat aaactctct tatgtttat agattttat ttgtgtgt tattataat cagctagaa ccccttgat ttgttct ttaccaatg gtttgggaa gcaataaac ttatgaag cggcaagtc ttaaggatc attcgcaac aactaatta ttctgaag aagtagagac agattaa MVNNFSQAEA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGA VLA AAFGN P Homo sapiens</p> <p>LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVSVSG ICIVLSWFFS VTYSFSIFYT GANEEGIEEL VVALTCVGC QAPLNQNWVL LCFLLFFIPN VAMVFIYSKI FLVAKHQARK IESTASQAQS SSESYKERVAKRERKAAKTL GIAMAAFLVS WLPYLVDVAVI DAYMNFITPP YVYEILVWCV YVNSAMNPLI YAFFYQWFGK AIKLIVSGKV LRTDSSTTNL FSEEVETD</p>
645	191193	Trace Amine Receptor 3 (TA3)	AAK71240.1	<p>algaalgagc cactagactia tttagcaaat gcttctgatt tcccgatta tgcagctgct ttggaaatt gcaatgata aaacatccca ctcaagatgc actactccc tgttattat ggcaltatct tctctgggg atttcaggc aalgcagtag tgalatccac ttactttic aaaatgagac ctgggaagag cagcaaccatc attatctga acctggcgtg cagagatcig cgtatcga ccagocctccc cttctgatt cactatag ccagtggga aaactggatc ttggagat ttatgttaa gtttatccgc ttactctcc attcaacct gtatagcagc atctctcc taacctgtt cagcaltctc cgtactgtg tgalatcca ccaatgagc tgccttcca ttacaaaac tcatgtgca gtttagcc tgcctgtgtt tggatcalt tcatgttag cgtctacc gtagccttc tgalcatc caaccaacg gaaccaaga ttagcctgc tgcactccac cagtcggat gaactcaata ctatgaagc gtaacacgt atttgacgt caactatt ctgcctccc ttgtgttag tgaacattg ctatcacagc attatccca ctctgacca tggactgcaa actgacgt gacttaaga gaaagcaga aggttaacca ttctgact ccttgatt ttactgtt ttatccct ccalactg agggctalc ggatgcatc tgcctgct tcaatcagtt gttccattga gaatcagatc catgaagct acatgttc tagaccalia gctgctctga acactttgg</p>
646	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>algaalgagc cactagactia tttagcaaat gcttctgatt tcccgatta tgcagctgct ttggaaatt gcaatgata aaacatccca ctcaagatgc actactccc tgttattat ggcaltatct tctctgggg atttcaggc aalgcagtag tgalatccac ttactttic aaaatgagac ctgggaagag cagcaaccatc attatctga acctggcgtg cagagatcig cgtatcga ccagocctccc cttctgatt cactatag ccagtggga aaactggatc ttggagat ttatgttaa gtttatccgc ttactctcc attcaacct gtatagcagc atctctcc taacctgtt cagcaltctc cgtactgtg tgalatcca ccaatgagc tgccttcca ttacaaaac tcatgtgca gtttagcc tgcctgtgtt tggatcalt tcatgttag cgtctacc gtagccttc tgalcatc caaccaacg gaaccaaga ttagcctgc tgcactccac cagtcggat gaactcaata ctatgaagc gtaacacgt atttgacgt caactatt ctgcctccc ttgtgttag tgaacattg ctatcacagc attatccca ctctgacca tggactgcaa actgacgt gacttaaga gaaagcaga aggttaacca ttctgact ccttgatt ttactgtt ttatccct ccalactg agggctalc ggatgcatc tgcctgct tcaatcagtt gttccattga gaatcagatc catgaagct acatgttc tagaccalia gctgctctga acactttgg</p>

647	191196	G Protein- Coupled Receptor GPR80	CAC51133.1	taacctgtta ctatagtgg tggcagcga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga acctgagca agcaagaaa atagttaact caacaaccc tga MNEPLDYLAN ASDFPDYAAA FGNCTDENP LKMHYLPVY GIUFLVGFP NAVVISITYF KMRPWKSSIT IMLNLACTDL LYL TSLPFLI HYYASGENWI FGDFMCKFIR FSHFNLYSS ILFLTCSIF RYC VIIHPS CFSHKTRCA VVACA VVWII SLVA VPMTF LITSTRNTR SACLDLTSSD ELNKTWYNL ILTATFLCLP LVIVTLCYTT IIHTLTHGLQ TDSCLKQKAR RL TILLLLAF YVCFLPHIL RVRIESRLL SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataatg actaatc ttaagcctc tgaattcct tctgtaaa caggcgccgt aattaccaca taacaggctg A gtaatgaaaa tcaatgaaca tgcagcaggt gctcaagtct tgttttgt tccaggggca cagatggagg tttctgagc atggatccaa caacccggc ctgggggaaca gaagtaaca cagtgaatgg aaatgacca gccctcttc tcttttgtg caaggagacc cigatccgg tctctgat cctttcatt gccctgtgc ggcgtgtgagg aaacgggtt gtcctcggc tctgggctt ccgcalgcgc aggaaagcct tctcgtcga cgtctcagc ctggccgggg cgcacttct cttctcgc ttcagatta taaattgctt ggtgacctc agtaactct tctgttccat cttccatcat ttcctagct tctcaccac tctgatgacc tctgtccacc ttcagacct gagcatgctg agcacctga gcacccagcg ctgcctgtcc gtcctgtggc ccatctggta tctgtggccg cgtccaccag accgtcagc ggctgtgtgt gtcctgtct gggccctgtc cctacgtcgc agcatctgg aaagggaagt ctgtggctc ttatttgtg atgtgtactc tgggtgtgtg cagacattg altcatcac tgcagcgtgg ctgatttt taltcaggt tctcgtggg tccagctcgg cctgtcgtgt caggatcttc tctgtctca ggggtctgcc actgaccagg ctgtactcga ccatctgct cacagtgtcgt ggtgtctcc tctcggcct gccctgtggc altcaggtt tctaatatt atggatctgg aagpactcgt atgtctatt ttgtcatatt catcagttt cagtgtctt gtcactct aacagcagtg caaccccat catuactc tctgtggctt ctttaggaa gcagtgccgg ctgcagcagc cgatctcaa gctgctc cagagggtc tgcaggacat tctgtgggtg gatcacagtg aagatgctt ccgtcagggg accocggaga tgcagagaag cagtctgtg tagatagga cagctctac ttcactaga taltgtggc ttgtgaggc aacttgcc ctgtctgt gatttctga acttctga tctgtatt aaacagta agagagctt tctgaggtt aagttagaca MDPTTPAWGT ESTVNGNDQ ALLLCGKET LIPVFLILFI AL VGLVGNF VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQINCLVYL SNFFCSISIN FPSFTTVMY CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFDGDSGWC QTFDFITAAW LFLFMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTLVL VFLLCGLPFG IQWFLILWIW KDSDVLFCHI HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPEMSRSSLV tcatacti gactcttt ttcaggcaaa agtttagat acactgtgg cattttccct gcatatgtgt gcaaatgctt gtcctgaag atcttgttt tctgcagg ttcagacti gccactagag ctgggattgg tcatgtgac atgtccgtc atggagtcga gtagagcagg actcaggca atgtctgca cactatggga agaataacig tagatcact tgaagaaggc agactttgtg ttaactct gctacaat aataacatag catttgggga tgaatgca atacaggtt ccatagtag ataatat gacaataic tccacagctg gtacatatt gccaaatgtg gtagcalaga tagggatgaa tctgaltcaa gctatgaat aatgtgagat gccaaatgta atgaattgg cttcattgta attcatat tgccttga aagcaaat gaaagcaatg aaggccaggga tggcaatgta gccagcatg gtgccaatg caagatgga tccctcica cactccagg tgaactct gggcaaggag acatttacct ctacagtagg tctgtcaaatg attagcaga gttgtcaaat gacaacctgg atgcccgtgc aagtgtgaat aataaggatc ggtctataga ggcactcag aaattctgt aatttgggt caaagctgaa ggcagcaaa attttcagag acttcgcaa aatgcaggag atgcaagag taaagctcac tcaaacatt gctgtccctgg tttaactgt gtagtctgtt ggtttccaa tgaanaagct cgtgtcggca	P	Homo sapiens
648	191218	MrgX2 G Protein-Coupled Receptor	AY042214		A	Homo sapiens
649	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1		P	Homo sapiens
650	191222	G Protein- Coupled Receptor Ls191222	LG94359		A	Homo sapiens

Homo sapiens

P

aaattgagga aatgacagag aaggatcaca tagcagactc ttaatcccc ggatgattc acaacaggig tigtcaggt
tcttgtaaat attatgcaa caaccagaac aatatgatt ccagtagagg agagaatcag gagtaggag gccaaaggagt
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QTLAMHSIE MINNSTLLPG VKLGYEYDT CTEVTVAMAA TLRFLSKFNC
SRETVEFKCD YSSYMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGVEST
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QMKKTTRSQH ICCYECQNC ENHYTNQTDN PHCLCNKKT HWAPVRSTMC
FEKEVEYNW NDSLAILLI LSLGIIIFVL VVGIIIFRNL NTPVVKSSGG LRVCYVILLC
HFLNFASSTF FIEGPQDFTC KTRQTMFGVS FTLCISCLT KSKILLAFS FDPKLQKFLK
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AILAFICFIF AFKGKYENYN EAKFITGML IYFIAWTFI PIYATTFGKY VPAVEIIVL
ISNYGILYCT FIPKCYVIC KQENTKSAF LKMIYSYSSH SVSSI

651 191222 G Protein-Coupled Receptor Ls191222 ENSP00000199 719

Homo sapiens

A

tttttgagc taggaagaagt ggttgagga cggcacagta gagagcttc agggctggct ggctgggat accgtacca
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652 193511 EGF-Like Module-Containing Mucin-Like Receptor EMR3 NM_032571

653	193511	EGF-Like Module- Containing Mucin-Like Receptor EMR3	NP_115960.1	<p>alcaacagoc lcaaggctt cttacatctt ttggctact gctctctcag ccagcaggc cagaacaat alcaaaagtg gttagagag atcgtaaat caaatctga gctcagaca tacacactt ccagcaagat gggctctgac tcaaaacca gtgagggga tgttttcca ggacaagtga agagaaata taaacag aatalcaac tcaatagga aatcatatc catggaiclc ttggcata tgaagaatga agctaaggaa aagggaatic ataaacata tcatcttgg agaggaaatg alcaaccttt actlccaag ctgtgttc tccacaatag gctcaaca aatgtgtgt aatgtcatt tctctcaaa aaaaaa MQGPLLPGL CFLSLFVAV TQTKTSCAK CPNASCNVN THCTCNHGYT SGSGQKLFY PLETCNDINE CTPYSVYCG FNAVYNVEG SFYCQCPGY RLHSGNEQFS NSNENTCQDT TSKTTEGRK ELQKIVDKFE SLLTNQTLWR TEGRQEISST ATTILRDVES KVLETALKDP EQKVLKIQND SVAJETQAIT DNCSEERKTF NLNVQMNSMD IRCSIIQGD TQGPSAIAFI SYSSLGNIN ATTFEEMDKK DQVYLSQVV SAAIGPKRNV SLKSQVTLTF QHVKMTPTK KVFVYWKST GQGSQWRDG CFLIHVNKSH TMCNCSLSS FAVLMALTSQ EEDPVLTVIT YVGLSVSLC LLLAALTELL CKAIQNTSTS LHLQSLCLF LAHLLFLVGI DRTEPKVLC IAGALHYLY LAAFTWMLLE GVHLFLTARN LTVVNYSSIN RLMKWIMFPV GYGVPVAVTVA ISAAWPHLY GTADRCWLHL DQGFMSFLG PVCAIFSANL VLFILVFWL KRKLSSLNSE VSTIQNTRML AFKATAQLFI LGCTWCLGLL QVGPAAQVMA YLFTIINSLQ GFFILVYCL LSQQVQKQYQ KWFREIVKSK SESEYTLSS KMGPDSPSE GDVFPQVKR KY KHAYICLAAI WAYASFWTM PLVGLGDYVP EPFGTCTLD WWLAQASVGG QVFILNLF CLLPTAVV FSYVKIAKV KSSKEVAHF DSRHSHVL EMKLTKVAML ICAGFLIAWI PYAVSVWSA FGRPDSIPQ LSVVPTLLAK SAAMYNPIY QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTTVRKSSAV LEIHEEV agcgaacct cggggcgccg gggagccatg ttggagcgc gggaggcgcg agcagcgcg gggatgctgt gggggggcg gaaaagcca gggccgcacg ccggagggcg tccggccgcg gagaagatgg tgcagagag ggcggcgggg tgcggagaga caggcgagg ggcggcgggc cggcgcgggc gcaaggggcc gggagggggc ccgagcgggc gggccagccc aaggcccgga cggggcggg ggcggcggg ggcggcgga ggcggcgga gggagggggc aggcggcgcc cggcggggg cgcggggaa cggcgagccc ccatactct gctcttc ctccttct tccccicag ccaggagggag ctggggggcg gggcgacca gggcgggag ccaggcttag ctgcactac gggggccag ggcataicg gggcgggagc cttagcttt tgcggagt ctccgggt ccggggagat gggggcgctg ggcggggct cagggagctt atctgtgg ggctccgag gaaaggcaa agcgccgga alagtcgag gccccttag cagcgaatg aggaagctgg gattgaacac ggctccagc catggcgag ccgcgaacga gaggacagag agggagcag gtcgtgta tactggcgcc cagaggtc ctctggggc cggacagag cttggcaag aggtagctg tcaacagggg ctctgtcc aggggtccg ggcggggga acagctgccc cctccctta gacttttga ttccggacca cgggtccag ccggtgtctt ccagcgga cgtggggaca ggctccgca aagagtggg caccggcg tgcgtgggg aatatggg aacaggagc aggggtcag ggcagagagc cagacatcc gaggagaaa ggaagcccc ccggcggaac tggctccag gggcgcggg atctggcccc gaggctggalt cagcaccag caggcgagg acagctctc catcagttc agcagcccc ggggtcggga cagctccgga gcccggcgcc aaggcgatgc gctccgggg tcttccgc tgcggctcc tccggcgag ccccgggcg cgtccccgg gactccggc ccgtctgaa gccaggaag taacctggc gaacggggca cgtttctgc ggcggcgaaa ccggccaccc cagttccgc agtaacacta ccagagctg gtcggggaga atgagcgag agggacggcg ggttgcag tgggtgcga gggccggag ggcgcgagg ccggcgcc agtactac ctggcgggac tgaagacag ccggcgctg gggctgtca gcatcgacc</p>	P	Homo sapiens
654	193516	G Protein-Coupled Receptor d1402H5.1	CAC21687.1	<p>agcgaacct cggggcgccg gggagccatg ttggagcgc gggaggcgcg agcagcgcg gggatgctgt gggggggcg gaaaagcca gggccgcacg ccggagggcg tccggccgcg gagaagatgg tgcagagag ggcggcgggg tgcggagaga caggcgagg ggcggcgggc cggcgcgggc gcaaggggcc gggagggggc ccgagcgggc gggccagccc aaggcccgga cggggcggg ggcggcggg ggcggcgga ggcggcgga gggagggggc aggcggcgcc cggcggggg cgcggggaa cggcgagccc ccatactct gctcttc ctccttct tccccicag ccaggagggag ctggggggcg gggcgacca gggcgggag ccaggcttag ctgcactac gggggccag ggcataicg gggcgggagc cttagcttt tgcggagt ctccgggt ccggggagat gggggcgctg ggcggggct cagggagctt atctgtgg ggctccgag gaaaggcaa agcgccgga alagtcgag gccccttag cagcgaatg aggaagctgg gattgaacac ggctccagc catggcgag ccgcgaacga gaggacagag agggagcag gtcgtgta tactggcgcc cagaggtc ctctggggc cggacagag cttggcaag aggtagctg tcaacagggg ctctgtcc aggggtccg ggcggggga acagctgccc cctccctta gacttttga ttccggacca cgggtccag ccggtgtctt ccagcgga cgtggggaca ggctccgca aagagtggg caccggcg tgcgtgggg aatatggg aacaggagc aggggtcag ggcagagagc cagacatcc gaggagaaa ggaagcccc ccggcggaac tggctccag gggcgcggg atctggcccc gaggctggalt cagcaccag caggcgagg acagctctc catcagttc agcagcccc ggggtcggga cagctccgga gcccggcgcc aaggcgatgc gctccgggg tcttccgc tgcggctcc tccggcgag ccccgggcg cgtccccgg gactccggc ccgtctgaa gccaggaag taacctggc gaacggggca cgtttctgc ggcggcgaaa ccggccaccc cagttccgc agtaacacta ccagagctg gtcggggaga atgagcgag agggacggcg ggttgcag tgggtgcga gggccggag ggcgcgagg ccggcgcc agtactac ctggcgggac tgaagacag ccggcgctg gggctgtca gcatcgacc</p>	P	Homo sapiens
655	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NM_001407	<p>agcgaacct cggggcgccg gggagccatg ttggagcgc gggaggcgcg agcagcgcg gggatgctgt gggggggcg gaaaagcca gggccgcacg ccggagggcg tccggccgcg gagaagatgg tgcagagag ggcggcgggg tgcggagaga caggcgagg ggcggcgggc cggcgcgggc gcaaggggcc gggagggggc ccgagcgggc gggccagccc aaggcccgga cggggcggg ggcggcggg ggcggcgga ggcggcgga gggagggggc aggcggcgcc cggcggggg cgcggggaa cggcgagccc ccatactct gctcttc ctccttct tccccicag ccaggagggag ctggggggcg gggcgacca gggcgggag ccaggcttag ctgcactac gggggccag ggcataicg gggcgggagc cttagcttt tgcggagt ctccgggt ccggggagat gggggcgctg ggcggggct cagggagctt atctgtgg ggctccgag gaaaggcaa agcgccgga alagtcgag gccccttag cagcgaatg aggaagctgg gattgaacac ggctccagc catggcgag ccgcgaacga gaggacagag agggagcag gtcgtgta tactggcgcc cagaggtc ctctggggc cggacagag cttggcaag aggtagctg tcaacagggg ctctgtcc aggggtccg ggcggggga acagctgccc cctccctta gacttttga ttccggacca cgggtccag ccggtgtctt ccagcgga cgtggggaca ggctccgca aagagtggg caccggcg tgcgtgggg aatatggg aacaggagc aggggtcag ggcagagagc cagacatcc gaggagaaa ggaagcccc ccggcggaac tggctccag gggcgcggg atctggcccc gaggctggalt cagcaccag caggcgagg acagctctc catcagttc agcagcccc ggggtcggga cagctccgga gcccggcgcc aaggcgatgc gctccgggg tcttccgc tgcggctcc tccggcgag ccccgggcg cgtccccgg gactccggc ccgtctgaa gccaggaag taacctggc gaacggggca cgtttctgc ggcggcgaaa ccggccaccc cagttccgc agtaacacta ccagagctg gtcggggaga atgagcgag agggacggcg ggttgcag tgggtgcga gggccggag ggcgcgagg ccggcgcc agtactac ctggcgggac tgaagacag ccggcgctg gggctgtca gcatcgacc</p>	A	Homo sapiens

[illegible]

[illegible]

656	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CEL5R3)	NP_001398.1	<p>gcaaaaggag cagaacaag ggaattcaag accagaalg taggtgccac tgcctcclat gttacagga tccctcgtag ccctaggcac ctgggctgca ggaagtgcact ccgtccact cctcctat tccctaaaa agggaaaaat gactgtacg accctgtca caaaactct actttgtca ttgtgtc tgcagaac tgaagactt aaaaattgt tactgtttac aagtcacat tcaaaaaatg tttttactt gttacaact caaaacttg agttttacac ttgtttaca gtagataatt tttttctt tgtttcaag tgaaggtag ggaagtggg agaaggactt ggaaggacca cctgtgagga cctgtacag gcaacttga ggggtttct aacccacag tctccacagg cgaagtgcag cctgtacag cgtttacag cagatcaga agactgtgag agtaggcgtc cttaaacac ggggagagat ggcgtgcag ggcgtggggg tgcctgtgc agacaccc tccccacca ccccatgcat actttggga agcagcttc tgggagattt gaaatttct tccctgact ggaagcctaaat cccaccagcc aggaacaaa cctccttac cgagaaggac cccagcttt gaaggcctga tggcctgct ggggggagga ggggtgtctt actatgtct aggttctga gtagccctc tctggggtc cctcctcca gccagcggc cctcttct gtcgtgttaa atgttcgt gaagccggc tctgtttgg gaataact ctatagaaa caaaa</p>	P	Homo sapiens
				<p>MMARRPPWRG LGERSTPILL LLLSLFPLS QEELGGGGHQ GWDPLAATT GPRAHIGGA LALCPSSGV REDGGPLGV REPVFLRG RRQSARNRG PPEQNEELG IEHGVQPLGS RERETGQPG SVLYWRPEVS SCGRGTPLQR GSLSPGALS GVPGSGNSP LPSEFLRHH GPKPVSSQRN AGTGSRKRVG TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR TARTAPASGS APRESRTAPE PAPKMRSRG LFRCLPQR PGPRLPLPA RPEARVTS NRARFRRAAN RHPQPPQYNY QTLVPENEA GTAVLRVVAQ DPDAGEAGRL VYSLAALMNS RSELSIDP QSGLIRTAAA LDRESMERHY LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY PILQLRATDG DAPPNANLRY RFVGPAAARA AAAAAFEIDP RSLISTSGR VDREHMESE LVVEASDQEQ EPGRSATVR VHTVLDEND NAPQSEKRY VAQREDVRP HTVVLVVTAT DRDKDANGLV HNYISGNSR GHFAIDSLTG EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHPI FVSTPFQVSV LENAPLGHSV IHQAQVDADH GENARLEYSL TGVAPDTPFV INSATGWVSV SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE YHLRLNEDAA VGTSVSVTA VDRDANSALS YQITGGNTRN RFAISTQGGV GLVTLALPLD YKQERYFKLV LTASDRALHD HCYVHINITD ANTHRPVFQS AHYSVSVNED RPMGSTIVVI SASDDVGEN ARITYLLEDN LPQFRIDADS GATLQAPLD YEDQVYTLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ FVASHYTGLV SEDAPPFTSV LQISATDRDA HANGRVQYTF QNGEDGDGDF TIEPTSGIVR TVRRLDREAV SVYELTAYAV DRGVPLRLTP VSIQVMVQDV NDNAPVFAE EFVVRVKENS IVGSVVAQIT AVDPDEGPNH HIMYQIVEGN IPELFQMDIF SGELTALIDL DYEAREQYVI VVQATSAPLV SRATVHVRLV DQNDNSPVLN NFQLFNYYV SNRSDTFPSG IIGRIPAYDP DVSDHLFYSF ERNELQLLV VNQTSSELRL SRKLDNNRPL VASMLVTVTD GLHSVTAQCV LRVVIITEEL LANSLTVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV FIFNIQNDTD VGGTVLNVSF SALAPRGAGA GAAGPWFSSE ELQEQLYVRR AALAARSLLD VLPFDDNVCL REPCENYMKC VSVLRFDSSA PFLASATLF RPIQPIAGLR CRCPGFTGD FCETELDLCY SNPCRNNGGAC ARREGGYTCV</p>		

DTEAGRCV PGVCRNGGTC TDAPNGGFC QCPAGGAFEG
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SVTVTRGS GRASHLLDQ VTVSDGRWHD LRLEQEEPG
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LPQNPVMN SPVSVAVFH GRNFLRGILE SPISLEFRLL
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DPLPSRP LDSLSRSSNS REQLDQVPSR HPSREALGPL QLLRAREDS
LDLSSIL ASFNSSALSS VQSSSTPLGP HTTATPSATA SVLGPSTPRS
EVRSEG HS
cca gctcccaac agcagttggc ccctaagta gaattggact aacacagg ccacccggc
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A Homo sapiens

P Homo
sapiens

P

658 193914 Neuropeptide FF
1 Receptor NP_071429.1

acotggcgtcgt cagtggacctcg ctgggtgggaca tctctgcat gccacacacc ctltgggaca accatcac tgggtggccc
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LVDNLITGWP FDNATCKMSG LVQGMVSAS VFTLVVIA VE RFRIVHPFR
EKLTLRKALV TIAVIWALAL LIMCPSA VTL TVTREEHFEM VDAARNRSPYL
YSCWEAWPEK GMRRVYTTVL FSHYLAPLA LIVVMYARJA RKLQQAQGPA
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aaaaaaaaaaa aaa

A Homo
sapiens

A

659 194319 G Protein-
Coupled Receptor
FLJ22684 NM_025048

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	MKVGVLWLIS FFTFTDGHGG FLGKNDDIKT KKELIVNKKK HLGPEVEEYQL LLQVYRDSK EKRDRLNFKL LKPPLLWSH GLRIIRAKA TTDCNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCHEHLNLL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SAIYSKYANG IEIQLKKAYE RIQGFESVQV TQFRMSLLSP KLECNGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	atgagttct gcaactcac acatgccac ttgtgtctta ttggtatccc aggalltagag aaagccatt tctgggttg cttcccctc ctttcatgt atgtatggc aatgtttgga aatgtcatcg tggcttcat cgtaaaggacg gaacgagcc tgcacgtcc gtatcacct ttctctgca tgcctgacg cattgacct gcctatcca catccaccat ctgcccttt tctggtttga ttccggagag atagcttg aggcctgt taccagatg tttttatc atgcctctc agccatgaa tccaccatc tgcctggccat ggccttggac cgtatgtgg ccacttgcca ccactggcg calgcgacg tgcctcaaca tacaataca gccagatg gcactggcg tgggtccgc ggalccctt tttttccc actgctctg ctagatcaagc ggcctggcctt ctgccactcc aatgctct cgactctta ttgttccac cagatgtaa tgaagtggc ctatgcagac acttgccca atgttggtata tggcttact gccattcgc tggctatggg cgtggacgta atgttcatct cctgtcccta ttcttgata atagaaacgg ttctgcaact gccctccaag tcaagcggg ccaaggcct tggaaacct ggtcacaca ttgggtgtgt actgcttc tatgtgccac ttatggcct ctagttgta cacogttg gaaacagcct tcatccatt gtgcgtgtg tcaagggtga catlaccatg ctgctgctc ctgtcatcaa tccatcatc tatggtgcca aaaccaaca gatcagaaca cgggtgtcgtg ctatgtcaa gatcagctg gacaaggact tgcaggctg tggagggcaag tga MSSCNFTHAT FVLIGIPGLE KAHFVVGFP LLSMYVVMFMG NCIVFIVRT ERSLHAPMYL FLCMLAADL ALSTSTMPKI LALFWFDSRE ISFEACL TOM FFIHALSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGINAVVR GSLFFPLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVYGLT ALLVMGVDV MFISLSYFLI IRTVLQPSK SERAKAFGTC VSHIGVLA FVYPLIGLSV HRFGNLSLHPI VRVVMGDIYL LLPVINPII YGAKTKQIRT RVLAMFKISC DKDLQAVGGK acttttica tgtctctt ggtgtgaaga tgaagaaat gaaagcagag tatgcacct ttataggag attcaaatg catctactg gattagctc aaagctcta aaatacaag acatccatct gacagatcac tgaaggagag actgtttt cgttttaga atagttccg attaaactt ttatgtcaag aagaaaaa gctagtatt tctaccaccag ggtgtgatt gttgttggc ttaccatgg ctcttggcg tgccttgaac cttaggggtc tgggtgtgt cgtgtgtgga ctactgactg gcatcattt gggacttggc atctggagga tttgtacag galccaaaga ggaatactia ctctcaltc aagcacctt acagattct gcaggaatgg tggaaacctgg gaaaatggca gatgtattg tacagaagag tggaaaggac tgaatgtatc aatgtctaat ttgttgaaa atagtactta tatgggttt acttttgcca gaatccaggt gggcagatag tgaacatct tgcacaatg tggcaaggat actccaatg cggggcaatcc aatggcagtc cgtgtgtgca gtctctct atatggagag atagaattac aaaaagtgtac aataggaaat tgaatgaaa atctggaaac cctggaaaag cagggtatgagg atgtcacagc accactaat aacattct ctagaagcca gatituaaca tctgtatgcca ataaatuaac tgcitagaac atcactatg ctacgtgagt ggttggagag atattcaaca ctccagaaa tgcctacct gaggcaaga aatgtgccat agtaacagt agtaactc tagatggcag tgaatgtct ttcaagag tgcgtctac tgcataatgat gatgccctta caactgtat tgaacaaatg gaggctt cctgtctt gggtaataca tcatgtgtgg aacctaaat agcaatagag tcaagaaat tctctcaga aatgtcgggt gggccttcaa atgttctct ctctgtcag aagggagcta gcagttct agtctttagt tcaactia tacaacaa tgggtatggc cttaaccag atgcacagac tgaagctcag gtctgtctia atatgacgaa aaattacac aagacalgc gctttagt ttaacaaat gacaagctt tcaatacaa aactttaca gctaaatcgg attttatga aaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct cttgttgcac tggctttagt ccaatgata accaaaaaa attcaactc tatctctatg cctgtgtctia tggaaattg tcaagcaagg acttgggacac ataggtctgt caaaaagaca aggcactga tggattctg cgttgcctg gcaaccatc tactaatit gctatitaa tgaatitcaa aaaggattat caatatcca	A	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	ERSLHAPMYL FLCMLAADL ALSTSTMPKI LALFWFDSRE ISFEACL TOM FFIHALSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGINAVVR GSLFFPLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVYGLT ALLVMGVDV MFISLSYFLI IRTVLQPSK SERAKAFGTC VSHIGVLA FVYPLIGLSV HRFGNLSLHPI VRVVMGDIYL LLPVINPII YGAKTKQIRT RVLAMFKISC DKDLQAVGGK acttttica tgtctctt ggtgtgaaga tgaagaaat gaaagcagag tatgcacct ttataggag attcaaatg catctactg gattagctc aaagctcta aaatacaag acatccatct gacagatcac tgaaggagag actgtttt cgttttaga atagttccg attaaactt ttatgtcaag aagaaaaa gctagtatt tctaccaccag ggtgtgatt gttgttggc ttaccatgg ctcttggcg tgccttgaac cttaggggtc tgggtgtgt cgtgtgtgga ctactgactg gcatcattt gggacttggc atctggagga tttgtacag galccaaaga ggaatactia ctctcaltc aagcacctt acagattct gcaggaatgg tggaaacctgg gaaaatggca gatgtattg tacagaagag tggaaaggac tgaatgtatc aatgtctaat ttgttgaaa atagtactta tatgggttt acttttgcca gaatccaggt gggcagatag tgaacatct tgcacaatg tggcaaggat actccaatg cggggcaatcc aatggcagtc cgtgtgtgca gtctctct atatggagag atagaattac aaaaagtgtac aataggaaat tgaatgaaa atctggaaac cctggaaaag cagggtatgagg atgtcacagc accactaat aacattct ctagaagcca gatituaaca tctgtatgcca ataaatuaac tgcitagaac atcactatg ctacgtgagt ggttggagag atattcaaca ctccagaaa tgcctacct gaggcaaga aatgtgccat agtaacagt agtaactc tagatggcag tgaatgtct ttcaagag tgcgtctac tgcataatgat gatgccctta caactgtat tgaacaaatg gaggctt cctgtctt gggtaataca tcatgtgtgg aacctaaat agcaatagag tcaagaaat tctctcaga aatgtcgggt gggccttcaa atgttctct ctctgtcag aagggagcta gcagttct agtctttagt tcaactia tacaacaa tgggtatggc cttaaccag atgcacagac tgaagctcag gtctgtctia atatgacgaa aaattacac aagacalgc gctttagt ttaacaaat gacaagctt tcaatacaa aactttaca gctaaatcgg attttatga aaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct cttgttgcac tggctttagt ccaatgata accaaaaaa attcaactc tatctctatg cctgtgtctia tggaaattg tcaagcaagg acttgggacac ataggtctgt caaaaagaca aggcactga tggattctg cgttgcctg gcaaccatc tactaatit gctatitaa tgaatitcaa aaaggattat caatatcca	P	Homo sapiens
663	194743	FLJ14454	NM_032787	acttttica tgtctctt ggtgtgaaga tgaagaaat gaaagcagag tatgcacct ttataggag attcaaatg catctactg gattagctc aaagctcta aaatacaag acatccatct gacagatcac tgaaggagag actgtttt cgttttaga atagttccg attaaactt ttatgtcaag aagaaaaa gctagtatt tctaccaccag ggtgtgatt gttgttggc ttaccatgg ctcttggcg tgccttgaac cttaggggtc tgggtgtgt cgtgtgtgga ctactgactg gcatcattt gggacttggc atctggagga tttgtacag galccaaaga ggaatactia ctctcaltc aagcacctt acagattct gcaggaatgg tggaaacctgg gaaaatggca gatgtattg tacagaagag tggaaaggac tgaatgtatc aatgtctaat ttgttgaaa atagtactta tatgggttt acttttgcca gaatccaggt gggcagatag tgaacatct tgcacaatg tggcaaggat actccaatg cggggcaatcc aatggcagtc cgtgtgtgca gtctctct atatggagag atagaattac aaaaagtgtac aataggaaat tgaatgaaa atctggaaac cctggaaaag cagggtatgagg atgtcacagc accactaat aacattct ctagaagcca gatituaaca tctgtatgcca ataaatuaac tgcitagaac atcactatg ctacgtgagt ggttggagag atattcaaca ctccagaaa tgcctacct gaggcaaga aatgtgccat agtaacagt agtaactc tagatggcag tgaatgtct ttcaagag tgcgtctac tgcataatgat gatgccctta caactgtat tgaacaaatg gaggctt cctgtctt gggtaataca tcatgtgtgg aacctaaat agcaatagag tcaagaaat tctctcaga aatgtcgggt gggccttcaa atgttctct ctctgtcag aagggagcta gcagttct agtctttagt tcaactia tacaacaa tgggtatggc cttaaccag atgcacagac tgaagctcag gtctgtctia atatgacgaa aaattacac aagacalgc gctttagt ttaacaaat gacaagctt tcaatacaa aactttaca gctaaatcgg attttatga aaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct cttgttgcac tggctttagt ccaatgata accaaaaaa attcaactc tatctctatg cctgtgtctia tggaaattg tcaagcaagg acttgggacac ataggtctgt caaaaagaca aggcactga tggattctg cgttgcctg gcaaccatc tactaatit gctatitaa tgaatitcaa aaaggattat caatatcca	A	Homo sapiens

664	194743	FLJ14454	NP_116176.1		<p>aatcaattga catattatcc aacgttggat ggcacatgic tgnacttggc cggcctcica cagttatatt tcatattgic accaggaaag teagaaaaac ctacgaacc tgggttttgg tcaatctgic catacaatg tgaatttca accctctt tggitttga attgaaaaact ccaalaagaa ctgcagaca agtgcagtg acaalaaiaa tatttgactt gacaalaaatg acataccagc gacagacacc attaacalcc cgaalcccal ggcacatgic atggccgct tactgcacta ttitctgta gtagacattia ccttggaaacg actcagcgt gcacagctct attaccttct aataaggacc atgaagcctc ttctggga ttacattct ttaattctc ttaattctc ttaattctc ttaattctc gctatagtag tggctataac agtgggagt atttattctc agaatggaaa taalccacag tgggaattag actacggga agagaaaaic tgcctggctgg caattcaga accaatggc gttataaaa gtcgcctggt gtcgcctggt gtcgcctggt taacallat ctccalagc aatgtgttga tttttatc aalcagc aagtgctgt ggaagaaiaa ccaagaaacg acaagcagaa aaaaagttic atccatgaag aagattgta gcaattatc ttttgcagt gtttttgaa ttaccitggt ttagcctac ctagctagc ttaattgatga tagcatagg atcgtcttca gctacattt cggctttc aacatacac agggatggca aattttatc ctagctagc ttagaaca agcttccag agtgaagctt ccaaggtt gattgttga tcttattg tgggaaggaa gctatgctt tcatgctg ggcggaggct gctgtgaaag atgtataat tctcaggtc atggcaacc ttacatgac gctttaggct actggaaacc tctccagta ctgaggaaal cacacictt gaaagtga aagcaagga aagcatcag acagtataac ttaccitggt tggctttt aatcaacctg ttgagttt atctgttct cctcttatt tccagctc ctgagaaagt cttctcaat gtttttct caggattaa aattagataa aacctgtgt ttattat tccgcataat ggacttggta gtttttct tttcaatag atttgaat gaalaaagg aagaatttca cacaacatc aagagtacca ttttcttca taltgttaa tcttggac acatttga aaaaatgtag aacctatac aaattcttt acaagtact alaaaggaca caaagagaaa actttactt ctagaacaac atgactcctg atgaacagtg tggggggt tgcgttag tattaaact ttagctctg</p>	P	Homo sapiens
665	194745	G Protein-Coupled Receptor SLT/MCH2	NM_032503		<p>MASCRWNLR VLVAVVGGLL TGILGLGIW RIVRIQRGK STSSSTPTE FCRNGGTWEN GRCTEEWK GLRGTIANFC ENSTYMGFTF ARIPVGRYGP SLQTCGKDTN NAGNPMVRL CSLSYGEIE LQKVTIGNCN ENLETKQV EDVTAPLNNI SSEVQLTSD ANKLTAEIT SATRVGQIF NTSRNASPEA KKVAIVTSQ LLDASEDAFQ RVAATANDDA LTLIEQMET YSLSLGNQSV VEPNIAQSA NFSSNAVGP SNVRSVQKG ASSSLVSSST FIHTNVDGLN PDAQTELQVL LNMTKNYTKT CGFVYQNDK LFQSKTFTAK SDFSQKIIS KTDENEQDQS ASVDMVFSK YNQKEFQLYS YACVYWNLSA KDWDYTGCK DKGTDGLRC RCNHTTNFAV LMTFKKDYQY PKSLDLSNV GCALSVTGLA LTVFQIVTR KVRKTSVTWV LVNLCISMLI FNLLFVFGIE NSKNLQTS GDINNIDFN NDIPRTDTIN IPNPMCTAIA ALLHYFLLVT FTWNALSAAQ LYLLIRTMK PLPRHFILFI SLIGWGVPAI VVAITVGVTY SQNGNPNQWE LDYRQEKICW LAIPEPNGVI KSPLLWSFIV PVTILISNV VMFTISIKV LWKNNQNLTS TKKVSSMKKI VSTLSAVVF GITWILAYLM LVNDDSRIV FSYFCLFNT TQGLQIFLY TVRTKVQSE ASKVLMLLSS IGRKSLPSV TRPRLRVKMY NFLRSLPTLH ERFRLLTSP STEEITLSES DNAKESI</p> <p>cggcccgccgg cagggttgc gaggcaccga cgcctctaaa aagagcagca cgcaccogag gctcggatg gatgaatgc aaagctttaa tcccttgaaa ggcacagaaac aatgaatcca ttatgcat ctgttggaa cactctgc gaactttaa acaatccig gaataaag ttgtctatc ttactatc aagatccag aaaaaaacag tccctgacat ctatctgc aactctgctg tggctgatt tggcaacat ctatgatt tttttatc ttactatc ttactatc ttactatc ttactatc ttactatc ttactatc ttactatc gggtccacata gttggatgc cttttatc ttactatc ttactatc ttactatc ttactatc ttactatc ttactatc ccatcatcac atccctggat acttgaacc aatttgcctg tagtgcac atgactgtaa tgaatgga caggtactt gccctctg</p>	A	Homo sapiens

666	194745	G Protein- Coupled Receptor SLTMCH2	NP_115892.1	<p>aaccatttcg actgacacgt tggagaacaa gglaacaagac calccggalc aatttgggcc ttggggcagc ttccittalc ciggcatttc cttcttgggt clactcgaag gicalcaaat tlaaagacagg tggtagagagt tggtagagagt atttgacatc cccigacogat gtactcgtt alacacttta ttgacgata acaactttt ttccctct acccttgat tgggtgctt atattttaal ttatgtctat acttggggaga tgaatacaaa gaataaggat gccagatgct gcaatccagc tgaatccaaa cagaatgaga tgaagtgcac aaaagatggg cttggctggg tggtagtctt tatccctt atcagccct atcagcttg acaactggg aactacaga tggacaagcc cacactggcc ttatgtgg gttattacct cttcatgt cicagctag ccagcagcag catlaacct ttctctaca tcttctgtag tggaaatttc cagaaagc tgcctcaaat ccaagaaga gcgactgaga aggaatacaa caatatggga aacactciga aatcacact ttaggaaagt acatgagct ccatgagct agacatgati gttacttta ctgtattat tagaaaggc aggtgtaocg atatgttat gccatttct cttgttact tggacttct agcagcattg aagaagaagc taacatgca aatacaatga gcttaatalg ctaactgaa aaaaaaaaaa aaaaaaaaaa</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ccacacac aggaacccga tctgggtga tgaagtga cagcagcag cttggtagt gctaacgctc agataagcat ctgtccatt gttgggactc cttggcctc tctgacccg gacattgt ctgtccccc calgtacaac gggctgct gccgacaga gggggacacc atctccagg tgaatccgct cttgctcatt gttggcttgg tcttggggc actaggcaat gggtctgccc tgttgggt cttctccac atgaagacct ggaagccag cactgtttac ctittcaat tggccgtggc tgaattctc cttatgact gccctgcttt tgggacagc tatcactca gacgtagaca ctgggcttt ggggacalc cttgctgagt ggggtcttc acgttggcca tgaacaggc cgtggagcctc gtttcttta cgttgggtgg tgcggacagg tattcaaaag tggccaccc ccaccagcg gttgaacacta tctccaccg gttggcgggt ggcacgtct cttcccttgg gggccctggc atccggggaa cagttatct ttgctggag aacctctct gcgtgcaaga gacggccgic tccgtgaga gcttcatcat gtagtctggc aatggctggc atgacatcat gttccagctg gatttctta tggccctgg calcatcta ttgtctct tcaagattgt ttggagctg aggcggaggc agcagctggc cagacaggct cggatgaaga agggcagccc gttccatcag tgcctgagc tttgtgtcat cacatgtac ctgcccagcg tgtctgttag acttatct cttggagcgg tgcctcagc tgcctgagc cctctgctc atggggccct gcacatacc ctacgttca cttacatgaa cagcagctg gttccctgg gttattatt tcaagcccc tctttccca aatctiaaa caagctcaaa atctgcagc tgaaccccaa gcagccagga cactcaaaa cacaaggcc ggaagagatg ccaatttga acctggctg caggagtgct atcaggtgag caaatgatt ccaagccag tctatgggc aatggatcc ccacattgtt gattggcact gaacagcag accaacaaca ctgaggaaga tagatgggtc acttagaatt aactgtgct aagggtggc gggctttgaa aatggccccc cctttctta ttgcaagaag gctctcga calgaactgc atctctca ttcttcgga aatgaattc acacaact acctttggg gagggtccag tt</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1	<p>MYNGSCCRIE GDTISQVMPP LLIVAFVLGA LGNGVALCGF CFHMKTWKPS TVYLFNLAVA DFLLMICLPF RTDYLRHRH WAFGDPCR V GLFTLAMNRA GSIVFLTVVA ADRYFKV VHP HHA VNTISTR VAAGIVCTLW ALVILGTVYL LLENHLCVQE TAVSCSEFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQOLA RQARMKKATR FIMVVAIVFI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPKPFYN KLKICSLKPK</p>	Homo sapiens

671	194858	G Protein-Coupled Receptor LS194858	LG94710	QGLFIFL FHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV ttagtcaag tcaaggcga cactgttgc gctgttggg tggtagcaa tcttggggcc gggactgtcc cgggaggctc ttcccacag cccctgcagg cacttttggg cggctgtccct ccagggggct gtagcgct gtagccag cccatggct acgggcacgt cgcgtgact ggcacttct agggagagga gggacaacag tttccagc ccaagtggc ggcgtgtc ataggccagg actagagga caggtgtggc cacttagggc cccagacaca ccccgaagag cagcatggct ccagccgtg cccttccgt cctccagta agggccggg caggccggga gggctctcag cggcacactg cccgtccag ccggcagalg tccttcagct ggcgttggg agtggccag cgcggccag agaggaggg agcagcacc accggcgggca gcaaggagcc atagacttg aggtacaggt agggggctgg gtagtagcc tgggagctgc agtgggacc aggggtccag tggttccac ccaggccggg cagactggga agagtaggg gaccagcca ggttagggagc agggccagcc gaatgtccc agggggctgg agtggctca ggaactgcat gtagcctcc cgtgacaca gcaagaggtt gggcagcagg gaggaggaagg agaatggg agccaagtag acgaggaggc aggaaccagta acccgccga ctcgttcc acagccctgg caatggggc aatggccagc ccgttagcag ccagccagc agtaggctca ggaagagga ggcagcaggt gggctgtcga ggcggcggt ctaggcgalg ccaggggcta ggcagcaggt cgcgtgtgag atgaggctg ccaggccag gggagggccc aaagccccc tgggaatggg gctgggccc tgcagcgc tgggtgggt cacttggc cggggagcag gggagcttc gaggggcagc cggcagc QDTRHGNRC RAGCSNLT LKQAQQAIP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIIT ANLLALGIA GTAAACAATCW LLLPETAGW AAHSGIATL PGLWNQSRG YWSCLLVYA PNFSFLSLA NLLVHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPLYLEVY GLLPVA GAA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaa tcatgggc cagacactg gctagtag tgggggggt ttagctaa tgtattcc atgttagcac agaatgtg tggcagtaga gaggagtcag gcttagagt cagcaagaac tggattcaa actggattg aggacccca ccttttga ggtgactat tctgtgtg tctgtatc gccccttla aatgaggag taaatccac atggcagggt ggggggga atcagatc atacagctgg tgalcacaac tgggttctgt ttccagggtc accagactgg ggtttctgag catggaltca accatccag tctgggtac agaatgaca ccaataacg gacgtaggga gactcttgc tacaagcaga cccttagctt caggggcgt acgtgcatog ttccctgt cggctgaca ggaagcggg tggctcgtg gctcctggg tgcggcagc gcaggagc tgtctcctc taccctca accgtgtgc ggcggact ccttcccta gggccacat tatalgtc ccgttagcc tcatatatt cggccatccc atctccaaa tctcagtc tggtagacc ttccctact ttataggct aagcagctg agcgccatca gcaagagcg cgtctgtcc atctgtggc ccatctggta ccactggc cggccagat accgtcalt ggctatgt gctcgtct gggccctgc cctcgtcgg agtatcgg agtggagt cgtgactt cgttttagtg gtcgtatc tgtttgtgt gaaacgtcag attcatat aatcgtgt cgtgtttt taltgtgt tctgtgtgg tccagccgtg tccgtgtg caggaltic tgggtatcc ggaagalgcc gctgaccagg cgtatgca ccatctct cagagctg gcttcttc tctgtggct ggccttggc atcaggtgg cccgtttc caggaltcag cgttaggga aggtctatt ttgcatg catctatt ccatttct gtcgtctt aacagcag ccaaccat catttact tctgtgggt ccttaggca gctgcaaat aggcagacc tgaagctgt tccagagg gctcgtcagg acacccctga ggtggagaa ggtggaggg ggttcccta ggaacccgtg gagctcgg gaaagcagtt ggaagcagtt ggaagaaact cgtccctgc agacagact ttgagagcaa tgcctcctg ccaccctga caataatg caltttct agcctcgt ctagaagt	A	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP00000053	QDTRHGNRC RAGCSNLT LKQAQQAIP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIIT ANLLALGIA GTAAACAATCW LLLPETAGW AAHSGIATL PGLWNQSRG YWSCLLVYA PNFSFLSLA NLLVHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPLYLEVY GLLPVA GAA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaa tcatgggc cagacactg gctagtag tgggggggt ttagctaa tgtattcc atgttagcac agaatgtg tggcagtaga gaggagtcag gcttagagt cagcaagaac tggattcaa actggattg aggacccca ccttttga ggtgactat tctgtgtg tctgtatc gccccttla aatgaggag taaatccac atggcagggt ggggggga atcagatc atacagctgg tgalcacaac tgggttctgt ttccagggtc accagactgg ggtttctgag catggaltca accatccag tctgggtac agaatgaca ccaataacg gacgtaggga gactcttgc tacaagcaga cccttagctt caggggcgt acgtgcatog ttccctgt cggctgaca ggaagcggg tggctcgtg gctcctggg tgcggcagc gcaggagc tgtctcctc taccctca accgtgtgc ggcggact ccttcccta gggccacat tatalgtc ccgttagcc tcatatatt cggccatccc atctccaaa tctcagtc tggtagacc ttccctact ttataggct aagcagctg agcgccatca gcaagagcg cgtctgtcc atctgtggc ccatctggta ccactggc cggccagat accgtcalt ggctatgt gctcgtct gggccctgc cctcgtcgg agtatcgg agtggagt cgtgactt cgttttagtg gtcgtatc tgtttgtgt gaaacgtcag attcatat aatcgtgt cgtgtttt taltgtgt tctgtgtgg tccagccgtg tccgtgtg caggaltic tgggtatcc ggaagalgcc gctgaccagg cgtatgca ccatctct cagagctg gcttcttc tctgtggct ggccttggc atcaggtgg cccgtttc caggaltcag cgttaggga aggtctatt ttgcatg catctatt ccatttct gtcgtctt aacagcag ccaaccat catttact tctgtgggt ccttaggca gctgcaaat aggcagacc tgaagctgt tccagagg gctcgtcagg acacccctga ggtggagaa ggtggaggg ggttcccta ggaacccgtg gagctcgg gaaagcagtt ggaagcagtt ggaagaaact cgtccctgc agacagact ttgagagcaa tgcctcctg ccaccctga caataatg caltttct agcctcgt ctagaagt	P	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	tcaggccag gataagtaa tcatgggc cagacactg gctagtag tgggggggt ttagctaa tgtattcc atgttagcac agaatgtg tggcagtaga gaggagtcag gcttagagt cagcaagaac tggattcaa actggattg aggacccca ccttttga ggtgactat tctgtgtg tctgtatc gccccttla aatgaggag taaatccac atggcagggt ggggggga atcagatc atacagctgg tgalcacaac tgggttctgt ttccagggtc accagactgg ggtttctgag catggaltca accatccag tctgggtac agaatgaca ccaataacg gacgtaggga gactcttgc tacaagcaga cccttagctt caggggcgt acgtgcatog ttccctgt cggctgaca ggaagcggg tggctcgtg gctcctggg tgcggcagc gcaggagc tgtctcctc taccctca accgtgtgc ggcggact ccttcccta gggccacat tatalgtc ccgttagcc tcatatatt cggccatccc atctccaaa tctcagtc tggtagacc ttccctact ttataggct aagcagctg agcgccatca gcaagagcg cgtctgtcc atctgtggc ccatctggta ccactggc cggccagat accgtcalt ggctatgt gctcgtct gggccctgc cctcgtcgg agtatcgg agtggagt cgtgactt cgttttagtg gtcgtatc tgtttgtgt gaaacgtcag attcatat aatcgtgt cgtgtttt taltgtgt tctgtgtgg tccagccgtg tccgtgtg caggaltic tgggtatcc ggaagalgcc gctgaccagg cgtatgca ccatctct cagagctg gcttcttc tctgtggct ggccttggc atcaggtgg cccgtttc caggaltcag cgttaggga aggtctatt ttgcatg catctatt ccatttct gtcgtctt aacagcag ccaaccat catttact tctgtgggt ccttaggca gctgcaaat aggcagacc tgaagctgt tccagagg gctcgtcagg acacccctga ggtggagaa ggtggaggg ggttcccta ggaacccgtg gagctcgg gaaagcagtt ggaagcagtt ggaagaaact cgtccctgc agacagact ttgagagcaa tgcctcctg ccaccctga caataatg caltttct agcctcgt ctagaagt	A	Homo sapiens

674	194878	MrgX3 G Protein-Coupled Receptor	AAK91806.1	MDSTIPVLGT ELTPINGREE TPCYKQTLSTF TGLTCIVSLV ALTGNAVVLW LLGCRMRRNA VSIYILNLVA ADFLSLGHI ICSPRLINI RHPISKILSP VMTFPYFIGL SMLSIASTER CLSILWPIWY HCRRPRYLSS VMCVLLWALS LLRSILEWME CDFLFGADS VWCETSDFIT IAWLVFLCVV LCGSSLVLLV RLCGSRKMP LTRLVYVITLL TVLVFLLCGL PFGIQWALFS RIHLDWKVLV CHVHLVSIFL SALNSSANPI IYFFVGSFRQ RQNRQNLKV LQRALQDTPE VDEGGGWLPQ ETELESGSRL EQ	P	Homo sapiens
675	194903	G Protein- Coupled Receptor GPCRB3	LG100657	tcaggttgag cgcagagcgc tctgtatgtc ctgaalggag gccctggaggt gctctgtgct gttgaggtct ggccggcaga ggatcacgta gcactiagc agaaatacc caccgaagcc gcctgctcagc cgtctcagcc cagccatcat gttggccgca ggcaggtact tgcctgctga gacgctggcc gttggtgaaga aggcgcatoca ggacacgaag ttgaagagca ggctgaaggt ggacacattg gctcgtgtgt agttctctgg caagtctta cccaggttagc tgcagggcaaa ggccactigatg gagagggaggc cattgtagag gagagggccagt algaagccca ggagagttgggt ctctgtgcac tcaagcatca ccagatggggg gagagcgtctgg tattccctag cagtcaggtgg ggtccacacc accagcccaag ttgaacagat aagtcagctgg gccgctigagc tgalcatcac aaacaggcca gcaccgtgggt ttggaccoca ggctgtgtgag aatgtaggtia ccttgggtgga aaacttgaag atgatgattia gttggataga gcgaactgtc aggcagggaca ggaaagatgggt gaaacccaagg gcaaaccaagg ccagggagccc cctggcgtgag caagcacgca ggccctgtgg gttcccaaa gaagcccaag aggtctgcccac taccctgtgc cagggagggccc agcataagaa agcacaggccg ggccctgtgt gactcacca caggggtgtgtc tgggtgcccag gcaaacaggcc cagtcagttccc aagtcagtcagc agcacaggcca gcgtgttagc tgcacgagc acccaagagg tgggtctcag caaagccaaa aacacacagc tgcgctgggaa gcaaggtctgg cttccctcag gttgccac tttcttcca caaggtctggc atctgtagag gttgtgaaggg gaagggcccaag aaggtttctctg agagccagat gagcagagta ggaataggaat atagggggctt gcaatgact ggaggaattg taccaggggca gctagactat actagtcata gttggagatggg ggttagccggg agtgggggctt gagggccagc atttctcaa aatgctgtgt ttaatacag acttcggaga cacacaggct ggtttctgtat ggtctcagat cccatgagggg ttgtgcaaac cctagggggagg accttaacct ggtagctctg cccacalacc agagaggtta cgtatcigatg ggagcagcct gttcccaagg ggaggggcatg taacccctct ctctggcag catttcag aaccatttc ctgagctgt gctctgtgt tctctgtgt cctggccctc tggagacaga aggggaggtat tctgtccct acagagatgg tgaagggaaa gaatgtggcc cctgggacac aactaagggac ctggagttct agctaccaa ttgtctct gttctgacc ttgcatctt ggagggggaa tgcgttttt ttctgtctc cagtcacgct agtacttga ttacaggccaa gctgttcaag gagctagctg tcttggcat gggtcaacaga agggcagatga ggacacagggg gcaacaagggg aacaatagct atatcatt agagaaagg gttgaattca ggalagact gctttgtgag gttgtgtgat gacagctctc taacagagga cacacctcag tctaaaggct tcagttggct aattcttct tttttctt ttttgaga cagagtttt ctctgtcgc ccaggtctga gttgcaatgg gcaatctgg ctactgcaa cctcggctc ccgggttcaa gcaattctc tgcctcagcc tccggagtag ctgggaatag aggcacagc caaacggccc ggctaaatt ttgtatt ttgtatga tgggtttca tgggtttca caggtctggct tgaactct ggactcaggt gattccacca cctcggctc ccaaaagtct gggaattacag gttgtgagcca ccgctggccc cctcttct ttttgggg ggacgaattc tgcgtttgtg gttcagggctg gaatgcatct tgggtcagc caacctcgc ctctgggtt caagtgaatc tctgtctca gctcccgag tggctgggt taccggcag ccgacacca cccagctaa ttattatt ttgtgagag atgggggttc accatgtgg ccaggctgg ctggaactc cgacctcaa tgaacccc ggctagcct ccaaaaggcc tgggaattaca ggcagagcc accgaccca gttgctgatt ctctgcat gaaatctg tggtagcagg tgccttcaa cctgaagctia actggcagcc cagtgaactgg gcttgggtc tgggtcagggg cacatgggggg ccaaggggagg ccttccctcc accgtgtagc ccccgggagt gctgggttagc tgcctgtctc catggccac tcaacctct tttgtgagaa ggttcccgag ccacaggggca cacactcaa gcagcagta tgggaacccc taacctcgc ctgggtggcc tcaagagcagt cgtgtggaaca cacagactia ggcactctga agaaagcaga gggtccacac gtagggggccc aagtcacagg acagctcaca tgggaacag aaacagagat ctctgtgcat ctggccctcag ggtctcactcc caggggcagggg cccctggctg tgggaacttc cggcccgagggg calctgcaaca	A	Homo sapiens

[illegible]

677	194904	WO0034334- hFB41A	AX147788	<p>VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSTQCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIHFKFST KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWL VVWTP L PAREYQRPFH LVMLECTETN SLGFILAFLY NGLLSISAF CSYLKGLDPE NYNEAKCVTF SLLFNFSVSWI AFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRRCGST</p> <p>gagcaacatg atcttttga agtactgac gggtgctgtc ttgacgggtca cgaagcacag agtgttgatc atgctgtgc tcatggcgal gcactgcagc atgtagaagg cagtgaggta gttgtcttcc ttcaacaaca cgggtggggaa gaagtcgcgc acgatgg'tga agccgttagaa ggggcgccag calagcacgt aggcgggtgag gatgcacatg agcacacagga ccgttctct cggggcagcgc agcctcttgc ggtatctgtc tgtctggaat ccaggggaccg ccttgaacca gtagctcccg gtagctcgg catagcacag gg'tcatgg'tg accacggggc ccacgaatc taigccaagg ataaagagga agtaggacti gtagtagagc tgc'tgtcca caggccagat ctggccgcag aagatcttct cctggctctt gacatgac aggaacgctct cgg'tgg'tgaa gtaggcggaa gggtagggca tcaagatgga caccgtcac accaaggcaa tcaaggcag't ggc'tgttgg cacttattc g'tgtgtcag cgg'taggca atagccagat acctaggggca agaacacaa'g tggaggcagc c</p> <p>MGFMDNATN TSTFSLVLN PHGAHATSP FNFSYSDYDM PLDEDEDVTN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAJV</p> <p>CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVIKSOEK IFCGQIWPVD QQLYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFFTVF VKEKHLYTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacgaggc gccggccgc atgtggagct gcagctgg't caacgggaca gggctgtgtgg aggagctggc tgcctggcag gaactgcagc tgggctgtc actgtgtgc ctgctggggcc tgg'tgtgtggc cgttgcag'tg ggcctgtgtc acaacgccct gctgtgtgc'g gccaacctac acagcaaggc cagcatgacc atgcccggagc tgtacttgt caacatggca g'tgtcagggcc tgg'tgtcag cggcctggcc cctgtgcacc tgtcggccc cccgagctcc cgg'tggggcgc tgg'tgtgtgt gggcggcgaa gtccag'tgg cactgcagat ccccttcaat g'tgtcttcc tgg'tgttccat g'tacttacc gccctgtc'tga gcttcggacca ctacatcgag cgtgcactgc cggggacctc calggggcagc g'tgtacaaca cgcggggcacgt g'tgcggcttc g'tgtgggtgt g'g'cgctgtc gaccagctc tctcgtc'g tcttctacat ctgcagccat g'tgtccacc g'cgcgctc'ga g'tgtggccaag atgcagaacg cagaagc'g'c cgaagccacg ctgtgttca tgg'tactgt g'tgtccagca ctggccacc tctacgctc g'tgtctac tccgcgtcc g'cagggagga cagccccc'g g'acccgggaca cggggcg'gct g'gagccctc'g g'cacacggc tgc'tgtgtgc caccgtgtc acgcag'tt'g g'gctc'gg'ac gccactat ctgatcttgc tggggcacac g'tgtcattc tcgcggggga agcccg'tgga cgtcacactac ctggggctac tgcacttgt g'aaggtattc tccaactcc tggccttctc cagcagctt g'tgacacc tctctacc ctacatgaac cagagcttcc ccagcaagct ccaacgggctg atgaaaaagc tgccttgcgg g'gacccggcac tgcctcccgg accaatggg g'tgtcagcagc g'tgtcggcgt agggcgccca g'ccctcctgg g'gagcgt'ga ctctgtt'gga c'g'cagagcac ttagtacc tggagctcc ccacatctt ccagaaaggag acgagctgtc g'gaaagagag cag'gaggggt g'ttttct'g aag'ttctt ttcccaca atgocactct tggggcaagg ctgtgttccc cgtggc'tggc atctgtgt'g ag'ttcccc'g agggc'tgtgc g'tctccaaa cagcagctc aagg'tccaca tctgcaaaag</p>	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	<p>MGFMDNATN TSTFSLVLN PHGAHATSP FNFSYSDYDM PLDEDEDVTN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAJV</p> <p>CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLVIKSOEK IFCGQIWPVD QQLYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFFTVF VKEKHLYTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p> <p>ggcacgaggc gccggccgc atgtggagct gcagctgg't caacgggaca gggctgtgtgg aggagctggc tgcctggcag gaactgcagc tgggctgtc actgtgtgc ctgctggggcc tgg'tgtgtggc cgttgcag'tg ggcctgtgtc acaacgccct gctgtgtgc'g gccaacctac acagcaaggc cagcatgacc atgcccggagc tgtacttgt caacatggca g'tgtcagggcc tgg'tgtcag cggcctggcc cctgtgcacc tgtcggccc cccgagctcc cgg'tggggcgc tgg'tgtgtgt gggcggcgaa gtccag'tgg cactgcagat ccccttcaat g'tgtcttcc tgg'tgttccat g'tacttacc gccctgtc'tga gcttcggacca ctacatcgag cgtgcactgc cggggacctc calggggcagc g'tgtacaaca cgcggggcacgt g'tgcggcttc g'tgtgggtgt g'g'cgctgtc gaccagctc tctcgtc'g tcttctacat ctgcagccat g'tgtccacc g'cgcgctc'ga g'tgtggccaag atgcagaacg cagaagc'g'c cgaagccacg ctgtgttca tgg'tactgt g'tgtccagca ctggccacc tctacgctc g'tgtctac tccgcgtcc g'cagggagga cagccccc'g g'acccgggaca cggggcg'gct g'gagccctc'g g'cacacggc tgc'tgtgtgc caccgtgtc acgcag'tt'g g'gctc'gg'ac gccactat ctgatcttgc tggggcacac g'tgtcattc tcgcggggga agcccg'tgga cgtcacactac ctggggctac tgcacttgt g'aaggtattc tccaactcc tggccttctc cagcagctt g'tgacacc tctctacc ctacatgaac cagagcttcc ccagcaagct ccaacgggctg atgaaaaagc tgccttgcgg g'gacccggcac tgcctcccgg accaatggg g'tgtcagcagc g'tgtcggcgt agggcgccca g'ccctcctgg g'gagcgt'ga ctctgtt'gga c'g'cagagcac ttagtacc tggagctcc ccacatctt ccagaaaggag acgagctgtc g'gaaagagag cag'gaggggt g'ttttct'g aag'ttctt ttcccaca atgocactct tggggcaagg ctgtgttccc cgtggc'tggc atctgtgt'g ag'ttcccc'g agggc'tgtgc g'tctccaaa cagcagctc aagg'tccaca tctgcaaaag</p>	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	<p>ggcacgaggc gccggccgc atgtggagct gcagctgg't caacgggaca gggctgtgtgg aggagctggc tgcctggcag gaactgcagc tgggctgtc actgtgtgc ctgctggggcc tgg'tgtgtggc cgttgcag'tg ggcctgtgtc acaacgccct gctgtgtgc'g gccaacctac acagcaaggc cagcatgacc atgcccggagc tgtacttgt caacatggca g'tgtcagggcc tgg'tgtcag cggcctggcc cctgtgcacc tgtcggccc cccgagctcc cgg'tggggcgc tgg'tgtgtgt gggcggcgaa gtccag'tgg cactgcagat ccccttcaat g'tgtcttcc tgg'tgttccat g'tacttacc gccctgtc'tga gcttcggacca ctacatcgag cgtgcactgc cggggacctc calggggcagc g'tgtacaaca cgcggggcacgt g'tgcggcttc g'tgtgggtgt g'g'cgctgtc gaccagctc tctcgtc'g tcttctacat ctgcagccat g'tgtccacc g'cgcgctc'ga g'tgtggccaag atgcagaacg cagaagc'g'c cgaagccacg ctgtgttca tgg'tactgt g'tgtccagca ctggccacc tctacgctc g'tgtctac tccgcgtcc g'cagggagga cagccccc'g g'acccgggaca cggggcg'gct g'gagccctc'g g'cacacggc tgc'tgtgtgc caccgtgtc acgcag'tt'g g'gctc'gg'ac gccactat ctgatcttgc tggggcacac g'tgtcattc tcgcggggga agcccg'tgga cgtcacactac ctggggctac tgcacttgt g'aaggtattc tccaactcc tggccttctc cagcagctt g'tgacacc tctctacc ctacatgaac cagagcttcc ccagcaagct ccaacgggctg atgaaaaagc tgccttgcgg g'gacccggcac tgcctcccgg accaatggg g'tgtcagcagc g'tgtcggcgt agggcgccca g'ccctcctgg g'gagcgt'ga ctctgtt'gga c'g'cagagcac ttagtacc tggagctcc ccacatctt ccagaaaggag acgagctgtc g'gaaagagag cag'gaggggt g'ttttct'g aag'ttctt ttcccaca atgocactct tggggcaagg ctgtgttccc cgtggc'tggc atctgtgt'g ag'ttcccc'g agggc'tgtgc g'tctccaaa cagcagctc aagg'tccaca tctgcaaaag</p>	Homo sapiens

680	194905	G Protein-Coupled Receptor MGC7035	LR112	<p>ccctctgccc ttacgctcc tccagcttca gttgtcaat gaagtatga aagcttagag ccagatatta tactttggg ttaataact</p> <p>tgattcccc ttgtttgtt lacaaaaa gaigtctct agaaatga caaatagtaa aatgaacaaa accctacgaa agaattggcaa</p> <p>cagccagggt ggccggggcc tgcagtggg cggcggtgic tagcaaggcc tgcgggggtg gccgcagica ccacagggtt</p> <p>cigagaacat ticacagaag tgcctgagac gggagacat ggcctgggtt aatlgagct attcaatagc agtgacgccc</p> <p>tctctcagc caccaatgt cctgacacc ctcaccgccc ccacagata acccagctg aggtttttt cagtatgaac ctgtcctaaa</p> <p>tcaattctc aaagtgtga caaactaaa gaataaaa aaacaaga aagtgaaaa aaaaaaaa aaaa</p> <p>MW'CSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVVGVPV GLCYNALLVL</p> <p>ANLHKSAMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGGE</p> <p>VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF</p> <p>VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIGYVVPV</p> <p>LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY</p> <p>LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLRYMYN</p> <p>QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA</p> <p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC</p> <p>CTGAATGCGC GCGGACAGG GCGACGCGC CTTTGGCGAG CCGTGGAGCAA</p> <p>GCCAAACGCA CCGGCTTTC CTCTCTCTCC GACGTCAAG GCGACCCCG</p> <p>GCTGTGCTG CCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTGCAG</p> <p>TGTCGTGCT GGGCAACGTG TGGCCCTGG TGCTGTGGC GCGCCGACGA</p> <p>CGCCGCGCG CGACTGCTG CCTGTACTC AACCTCTCT GCGCGGACCT</p> <p>GCTCTTCATC AGCGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG</p> <p>CCTCCCTGCT GGGCCCCGT GCTGCCACC TGCTCTCTA CGTGATGACC</p> <p>CTGAGCGGA CGGTACCAT CCTACGCTG GCGCGGTCA GCCTGGAGGG</p> <p>CATGGTGRG ATCGRGACC TGGAGCGCG CGTGCGGGT CCTCCGCGGC</p> <p>GGCGCGGC AGTGCTGCTG GCSCTCATCT GGGCTATTG GCGGTGCGC</p> <p>GCTCTGCTC TGTCGCTCTT CTTCGAGTC GTCCCGCAAC GGCTCCCCG</p> <p>CGCGACCA GAAATTGCA TTGACACAT GATTGGCCC AGCATTCCTC</p> <p>GAGAGATCTC GTGGATGTC TCCTTTGTA CTTTGAACCT CTGGTGCCA</p> <p>GGACTGGTCA TTGTGATCAG TTACTCCAA ATTTACAGA TCACAAAGG</p> <p>ATCAAGGAAG AGGTCACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA</p> <p>TCCGCGTGC CCAGCAGGAC TTCCGGCTCT TCCGACCCCT CTTCCTCCT</p> <p>ATGGTCTCCT TCTTCATCAT GTGGAGCCCC ATCATCATCA CCATCCTCT</p> <p>CATCCTGATC CAGAACTTCA AGCAAGACCT GGTCTCTGG CCGTCCCTCT</p> <p>TCCTCTGGGT GGTCCCTTC ACATTTGCTA ATTCAGCCCT AAACCCCATC</p> <p>CTCTACACA TGACACTGTG CAGGAATGAG TGAAGAAAA TTTTGTGCTG</p> <p>CTTCTGTTT CCAGAAAAAG GAGCCATTT AACAGACACA TCTGTCAAAA</p> <p>GAAATGACTT GTCGATTAT TCTGGCTAAT TTCTTTATA GCGGAGTTTC</p> <p>TCACACCTGG CGAGCTGTGG CATGCTTTTA AACAGAGTTC ATTCCAGTA</p> <p>CCCTCCATCA GTGCACCCCTG CTTTAAGAAA ATGAACCTAT GCAAAATAGAC</p> <p>ATCCACAGCG TCGTAAAT AAGGGTGAT CACCAAGTTT CATAATATT</p> <p>TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCCGTGAA</p>	P	Homo sapiens
681	194907	G Protein-Coupled Receptor 14273	LD22826	<p>ccctctgccc ttacgctcc tccagcttca gttgtcaat gaagtatga aagcttagag ccagatatta tactttggg ttaataact</p> <p>tgattcccc ttgtttgtt lacaaaaa gaigtctct agaaatga caaatagtaa aatgaacaaa accctacgaa agaattggcaa</p> <p>cagccagggt ggccggggcc tgcagtggg cggcggtgic tagcaaggcc tgcgggggtg gccgcagica ccacagggtt</p> <p>cigagaacat ticacagaag tgcctgagac gggagacat ggcctgggtt aatlgagct attcaatagc agtgacgccc</p> <p>tctctcagc caccaatgt cctgacacc ctcaccgccc ccacagata acccagctg aggtttttt cagtatgaac ctgtcctaaa</p> <p>tcaattctc aaagtgtga caaactaaa gaataaaa aaacaaga aagtgaaaa aaaaaaaa aaaa</p> <p>MW'CSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVVGVPV GLCYNALLVL</p> <p>ANLHKSAMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGGE</p> <p>VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF</p> <p>VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIGYVVPV</p> <p>LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY</p> <p>LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLRYMYN</p> <p>QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA</p> <p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC</p> <p>CTGAATGCGC GCGGACAGG GCGACGCGC CTTTGGCGAG CCGTGGAGCAA</p> <p>GCCAAACGCA CCGGCTTTC CTCTCTCTCC GACGTCAAG GCGACCCCG</p> <p>GCTGTGCTG CCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTGCAG</p> <p>TGTCGTGCT GGGCAACGTG TGGCCCTGG TGCTGTGGC GCGCCGACGA</p> <p>CGCCGCGCG CGACTGCTG CCTGTACTC AACCTCTCT GCGCGGACCT</p> <p>GCTCTTCATC AGCGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG</p> <p>CCTCCCTGCT GGGCCCCGT GCTGCCACC TGCTCTCTA CGTGATGACC</p> <p>CTGAGCGGA CGGTACCAT CCTACGCTG GCGCGGTCA GCCTGGAGGG</p> <p>CATGGTGRG ATCGRGACC TGGAGCGCG CGTGCGGGT CCTCCGCGGC</p> <p>GGCGCGGC AGTGCTGCTG GCSCTCATCT GGGCTATTG GCGGTGCGC</p> <p>GCTCTGCTC TGTCGCTCTT CTTCGAGTC GTCCCGCAAC GGCTCCCCG</p> <p>CGCGACCA GAAATTGCA TTGACACAT GATTGGCCC AGCATTCCTC</p> <p>GAGAGATCTC GTGGATGTC TCCTTTGTA CTTTGAACCT CTGGTGCCA</p> <p>GGACTGGTCA TTGTGATCAG TTACTCCAA ATTTACAGA TCACAAAGG</p> <p>ATCAAGGAAG AGGTCACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA</p> <p>TCCGCGTGC CCAGCAGGAC TTCCGGCTCT TCCGACCCCT CTTCCTCCT</p> <p>ATGGTCTCCT TCTTCATCAT GTGGAGCCCC ATCATCATCA CCATCCTCT</p> <p>CATCCTGATC CAGAACTTCA AGCAAGACCT GGTCTCTGG CCGTCCCTCT</p> <p>TCCTCTGGGT GGTCCCTTC ACATTTGCTA ATTCAGCCCT AAACCCCATC</p> <p>CTCTACACA TGACACTGTG CAGGAATGAG TGAAGAAAA TTTTGTGCTG</p> <p>CTTCTGTTT CCAGAAAAAG GAGCCATTT AACAGACACA TCTGTCAAAA</p> <p>GAAATGACTT GTCGATTAT TCTGGCTAAT TTCTTTATA GCGGAGTTTC</p> <p>TCACACCTGG CGAGCTGTGG CATGCTTTTA AACAGAGTTC ATTCCAGTA</p> <p>CCCTCCATCA GTGCACCCCTG CTTTAAGAAA ATGAACCTAT GCAAAATAGAC</p> <p>ATCCACAGCG TCGTAAAT AAGGGTGAT CACCAAGTTT CATAATATT</p> <p>TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCCGTGAA</p>	A	Homo sapiens

682	194907	G Protein-Coupled Receptor 14273	LR116	<p>TCCCAGCAGT TTGGGCTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCG AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAATAAAA AAAAAATA GCTGGGAGTG GTGGTGGGCA CCGTAATOC TAGCTACTTG GGAGGCTCAA CCACGAGAAAT CTCTGAACCT TGGAGGCGAG AGGTTGCAGT GAGCCGAGAT CGTGCCATTG CACTCCAACC AGGGCAACAA GAGTGAAACT CCATCTTAAA AAAAAAATAA AAGATTGT TATGGGTTC TTTTAAATGT GAACTTTTT AGTGTGTTTG TATATGATCA AATTATAA ATATTTATTT ATGACTGTC AGCAAAAAA AAAAAAAA AGGGCGG MSPCARAAG DAPLRLEQA NRTFPFSD VKGDHRLVLA AVETTVLVLI FAVSLGNVC ALVLVARRR RGATACLVLN LFCADLLFIS APLVLA VRW TEAWLLGPVA CHLLFYVMTL SGSVTILTL AVSLDRMVC VMLQRGVRCP GRRARAVLLA LIWGYSAVAA LPLCVFFRVV PQLPGADQE ISICTLIWPT IPGEISWDVS FVTNLFLVPG LVIVISYSKI LQTTKASRKR LTVSLAYSRS HQIRVSQQDF RLFRTLFLLM VSFIMWSPI IDTILLILQ NFKQDLVIWP SLPPWVVAPT FANSALNPIL YNMTCRNEW KKIFCCTWFP EKGAILTDT VKNRDLISIIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVLQ NFGAVVWIAS ESWAIDPVLH NLTELGHGT FLGITIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFTL LDHQIFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRQLKNIKTS LHTVNNTIPM SMCSCRQSG QKKKPVGIHV CCFECIDCLP GTFLNHTCP NNEWSYQSET SCFKRQL VFL EWHEAPTIAV ALLAALGFLS TLAILVFWR HFQTPIVRSA GPMCFLMLT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRAV SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSFAYMGK ELPTNYNEAK FITLSMTFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYFGP KCYMILFYFE RNTPAYFNSM IQGYTMRRD</p>	P	Homo sapiens
683	194908	G Protein-coupled Receptor Gpcrb4	LR117	<p>algaagcaga attatccct gcctggggct ggcagcgt gctacgcga cgtgaalggg tccgtgiga aaalccctcl ctcggcgga tccggggiga lctglaacat agtittggc ttggggcgt gctggcgt gttggaaac ctcctggiga tgcattcaat ccctcattc aagcagcgc actctccgac caatttctc gtgccttc ttgccttc ttgccttc ttgccttc ttgccttc ttgccttc cttcagatg gtcagcagg ttgagagcgt cttgatttt ttgagaggt ttgatttt cccacccgtc ttgagatg cttttgta ctctctc ttactttt gcttctc cttcagcagg taccagcgt ttactgccc cttgctat cttactaat taccgctc ttgctcagga attgcatca gctgtctcgt gattcctccc cttcagcaga gctgtgctgt gttcagca ggtgtcgt acgatggct ggaggaatta tctgagccc laaacgtat agggaggtgt cagaccgtt taaatcaaaa cttgggtgtg acagatttc tatcctct talactacc ttattatga taacttgta ttgtaacata ttcttggtg ctgagcagca ggcgaaaaag alagaaaaa cttgtagcaa gacagaalca tctcagaga gtaacagc cagagtgccc agggagagaga gaaagcagc taaacccgtc ggggtcacag tggtagcatt tatgattca tggtagcatt atagcatga ttactaat gatgcctta tggcctta aaccctgcc tttattatg agatttgcgt ttgtgtgct tattataact cagccalgaa tctttgatt taltctat ttacccatg gtttaggaaa gcaataaaa</p>	P	Homo sapiens
684	194957	Trace Amine Receptor 4 (TA4)	AF380192		A	Homo sapiens

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttattgaac tggcaggtt ttaagaaca gttcagaac calgaattg ttcttgaac alalaa MSNSSLLVA VQLCYANVG SCVKIPSPG SRVILYVFG FGAVLAVFGN LLVMISILHF KQLHSPTNFL VASLACADFL VGVTVMPFSM VRTVESCWFYF GRSFCTFHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PTKFTVSUSG ICISVSWILP LMYSGAVFYT GYVDDGLEEL SDALNCIGCG QTVNQNWVL TDFLSFFIPT FIMILYGNL FLVARRQAKK IENTGSKTES SSESYKARVA RRRKAATL GVTVAFMIS WLPYSDSLI DAFMGFITPA CIYEICCWCA YNSAMNPLI YALFPWFRK AIKVITGVQV LKNSSATMNL FSEHI</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgaccaga attttcca accgtgttg cagcttgt atgaggatg gaalgatc tgiatgaa ctcctatic tctgggtcc cgggtaatic tgiacagcg gttagctt gggctttgc tggctgtatt tggaaatc ttagtaaga cttctgtt tcatltaag cagctgact ctaacacaa ttcttcat gctctctgg ccgtgtcga ctttggta ggtgtgac tgaatctt cagcatggc aggacgggtgg agatgtctg gtaattgga gcaaatit gtaetctca cagttgctg gatgtggcal ttgtactc ttctgctc cacttgcct tcatctgcat cgacaggatc atgtggta ctaacccct ggctatgct accaagtca ccgtgtcgt gtcgggaatt tgcatcagcg tgcctggat tctgcctc acgtacagcg gtcgtgtt ciacacaggt gtaaatgat atgggtcgtgga ggaattagta agtgcctca actgcgtagg tggctgtcaa atattgtaa gtaaggtc ggtgtgala gatttctgt tatttcat acctacct gttatgata ttctttacag taagtatt ctatagta acaacaagc tataaat gaaactacta gtagcaagt agaalcalcc tcaagagat ataaatcag agtgccaag agagagaga aagcagctaa aacctgggg gtaaggtac tagcattgt tattcatgg ttaccgtata cagttgat ataatgat gctttatgg gcttccgac ccctgctat atctatgaaa tttgcgtg gagtgctat taaatcag ccatgaatcc ttgatatt gcttatt atcttgggt taggaaagcc ataaactia ttttaagg agatgttta aaggctgt catcaacct tagttatt ttagaataa</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFLSMV RTVESCWFYF AKFCTLHSCC DVAFCYSSL HLCFICIDRY IVVTDPLVYA TKFTVSUSGI CISVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAUKI ETTSSKVESS SESYKIRVAK RERKAATLG VTVLAFVISW LPYTVDLID AFMGFLTPAY IYEICCWSA YNSAMNPLIY ALFYPWFRKA IKLILSGDVL KASSSTISLF LE</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcattgct tcttctctg ccatgatga ccagttctag tcacagatg gtaacaacca cctcttttg tatcgaatt cctccaccig aaagaaatt tcaagaccag gataagataa tcatcgggtc caaagccctg gccagatgag tgggggtgt ttgatctaa tgtattccc atgtcagcac agaactgtg tggcagtaga gtagatgtag gttcagatg caacaagaac tggattcaa actggattg aggaacccca ccttggtaa gtagctatt atctgcgagc cctgttct cttcttta aatgaggaga gtaaatccca tacggcaggg tggggggag aatcagat gatacagcg gtagacat cttgtttg ttccaggggg caccagacia gagtttcta gcatggatcc aaccgtcca gttcggta caaaatgac accaatcaac ggacgtgagg agactcctg ctacaatcag acctgagct tccgtgct gacgtgcat atttccctg tccagatgac aggaacgcg gtagtctct ggctcggg ctaccgcatg ccagaggacg ctgtccat ctacatcic aacctggccg cagcagact cctctctc agctccaga ttatctg ccatcagc ctatcaata tcaagcat calccgcaa atctctgt cttgtatgac cttccctac tttaaggcc tgaatgct gtaggcctc agcaccagc gctgtcgt ttttctggt ccatctgt accgtgccc ccgcccaca cactgtcag cgggtgtg tttctctc tggggctgt cctgtgtt tagtatgct gaggagggt tctgtgact cctgttagt ggtgtgatt ctatgtgt tgaacgtca gattatcc cagtcgtg gctgattt ttatgtgg ttctgtgt ttcagccctg gtctgtcgg tcaagatct ctgtggatcc cgggaagatgc cgtgacccag gctgtacgtg acctcctgc</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	<p>tcacagtgtc gggtctctc ctcgcgcc tgcctcgg caticgggg gcoctaatt acagatgca cctgaattg gaagtctat atgtcatgt ttaictggt tgcaltccc tgcctctc aaacagtgt gcaacccca tcaattact ctcgtggc tccuaggg agcgtcaaaa laggcagaac ctagagctgg ttcaccagag ggctcigcag gacaagcctg aggtggataa aggtgaaggg cagcttctg aggaagcct ggagctgctg ggaagcagat tggggccalg agggagagcc tctgcoctgt cagtacagc ggactttgag agcaacatg tctgccacc ctgacaatt acatgctt tcttagct ttcgctcag aaatgctca gtaggaanc aaggttca aataatggt tatcaact gacagtga gtttcaac atggaagca ttagctcag agtacaagt tggg MDTPVPVFGT KLTPINGREE TPCYNQTL SF TVLTCISLV GLTGNAVVLW P Homo sapiens</p> <p>LLGYRMRRNA VSYILNLAA ADFLFLSFQI IRSPRLINI SHLRKILVS VMTFPYFTGL SMLSALISTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LLFSMLEWRF CDFLFGADS SWCETSDIFP VAWLFLCVV LCVSSLVLLV RILGSRKMP LTRLVVTILL TVLVFLLCGL PFGILGALY RMHLNLEVLY CHVYLVCMSL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLELSGSRRL GP</p>
690	195015	G Protein- Coupled Receptor GPR82	AF411111	<p>atgaacaaca atacaacatg tatcaacca tctatgaict ctccatggc tttaacaalc attacatec tccitttlat tgttgtgtt ttgggaaca cctctctca atggatatt ttacaataaa taggtaaaaa aacatcaacg cacatcacc tgtcacact tgtactga aacttactg tggcagctg calgccttc atgagatct attcctgaa aggtttccaa tgggaatac aatcigtca atgcagagig gtcaatttc tgggaactc atccatgat gcaagatgt tigtacgt ctaatttta agttggtat ccataagccg ctatgctacc ttaatgcaaa aggtattcct gcaagagact actcatgct atgagaaaat atttatggc cattactga aaaaatttcg ccagcccaac tttgctaga aactatgat ttacatgg ggagtgtgac tgggcataat cattcagti accgtatct actcagtcac agaggctaca gaaggagaag agagcctalg ctacaatgg cagatggac taggagccat gatctctcag attgcaggic tcatitggaac cacatttatt ggatttct tttagtact actaacatca tactactt tigtgaacca tctgagaaaa ataagaacct gtacgtccat tatggagaaa gattigact acagtict gaaaagacat cttttggca tccagatct actaatgti tgcctcttc ctataglat ttttaacc attttatg ttctaccca aagagataac tgtcagcaat tgaattatt aatagaaca aaaaacalc tccctgct tgcctggcc agaagtagca cagaccccat tatattct ttatagaca aaacattcaa gaagacacta tataatcti ttacaagtc taattcaga catatgaat catatggtg a</p> <p>MNNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHLVTA P Homo sapiens</p> <p>NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTL SMH ASMFVSLIL SWIAISRYAT LMQKDSQJET TSCYEKIFYG HLLKKFRQPN FARKLCYIW GVVLGIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSVVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIIFL LLDKTFKKTL YNLFTKSNSA HMQSYG</p>
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aacaccacat caccaccggc tccctttgag accggcgga acactactgg tatctccgac gtaccgtca gtaccaagt gatcacctct ctgtgctgg gaactgtcat ctctcgcg gtgctgagca atgctgtcgt ggtggctgac atcgccctgg agcgtccct ccagaacgtg gccaatatc ttattggctc ttggcgctc accgacctca tgggtgctgt gttggtgctg cccatggcgc cgctgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcacgc cctcgacgt gctgtgctgc acctcatcca tcttgacact gtgcgccatc gcgtggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gaggaagccc cgccgcgctg cgctcatctc gctcacttgg cttattggct tctcatctc tatcccgccc atcctgggct ggcgacccc ggaagaccgc tcggaccocg acgcatgcac cattagcaag gatcatggct acactatcta ttccaccttt ggagctttct acatccgct gctgtcatg ctggttctct atggcgcat attccgagct gcgcgttcc gcaccgcaa gacgtgcaa aaggtggaga agccggagc ggacaccgc catggagcat ctccgcccc gcagcccaag aagagtga atggagagtc gggagcagg aactggaggc tggcggtgga gagcaaggct gggggtgctc tgtgcgcaa tggcgcggtg aggcaagggt acgatggcgc cgccctggag gtgacgagg tgcaccaggt gggcaactcc aaagagcact tgcctctgcc cagcaggtc ggtcctacc ctgtgcccc cgctctttc gagaggaaa atgagcgcaa cgccgaggc aagcgcaaga tggccctggc ccgagagagg aagacagtga agacgtggg catcatcgt gcacacttca tctctgctg gctgcccctc ttcacgtggt ctctgttct gccctctgc gagacagct gccacatgcc caccctgtg ggcgccataa tcaattggct gggctactcc aactctctgc ttaaccccg catttacgca tacttcaaca aggactttca aaacgcgtt aagaagatca ttaagtgtaa cttctgcgcg cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSPGQGN NTSPPAPFE TGGNTTGISD VTVSYQVITS LLGTLIFCA VLGNA CVVAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMALYQVLN KWTLGQVTC LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLM LVLYGRIFRA ARFRIRKTVK KVEKTGADTR HGASAPAPQPK KSVNGESGSR NWRLGVESKA GGALCANGAV RQDDGAALAE VIEVHRVGN KEHLPLPSEA GPTPCAPASF ERKNERNAEA KRKMALARER KTVKTLGIIM GTFILCWLPF FIVALVLPFC ESSCHMPTLL GAINWLGYNS NSLLNPVIYA YFNKDFQNAF KKIICKNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaa cgggtgctca gtgcgctcca ccgcgcggc cggtgctccga gacctgggtt cctcaagcca acttatctc tgcctcctcc caaaactgca gcgccaagga ctacatttac caggactcca tctccctacc ctggaagata ctgctggtta tgcatttggc gctcatcacc ttggccacca cgtctctcaa tgcctttgtg attgccacag tgtaccggac ccggaactg cacaccccg ctaactacct gatcgctct gatcggtgta ccgacctgct tgtgtccatc ctgggtgatgc ccatcagcac catgtacatc gtcacggcc cctggacact gggccagggtg gtctgtgact tctggctgtc gtcggacatc acttgttga ctgcctccat cctgcacctc tgtgtcatcg ccttgaccg ctactgggc atcacggac ccgtggagta ctcagctaaa aggactcca agaggcgcc ggtcatgatc gcgctgggtg ggtcttctc catctctatc	A	Homo sapiens

Homo
sapiens

P

QDSISLPWKV LLMVLLALIT

tga

agcactgagc ccttctctg gcgtcaggct aaggccgaag aggagtgctc ggaatgcgtg

NP_000854.1

5-HT1B
Receptor

128

4

Homo
sapiens

A

agagccacct agcatgtccc cactgaacca

tgcgagagag

agcactgagc ccttctctg gcgtcaggct aaggccgaag aggagtgctc ggaatgcgtg

NM_000864

5-HT1D
Receptor

129

5

Homo
sapiens

P

LAVLSNAFVL

tattcgatga

agcactgagc ccttctctg gcgtcaggct aaggccgaag aggagtgctc ggaatgcgtg

NP_000855.1

5-HT1D
Receptor

129

6

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGRI YRAARNRILN PPSLYGKRFT TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVKIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPEFFV SLVLPICRDS CWIHPALFDF FTWLGYLNSL INPIIYTFVN EEFRQAFQKI VPRFKAS atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttccg A agtgaagatt ctggagccag ctggacgtgc cggtttgccc agtgcggcgc gcgtgcacgc accgtccaca agagtctcag tcgcccaggc tggagtgcag gacacagctc tcacctcatt gaaacctcgc cctcccggtt tcgcggggtt tcgcctcag cttcctagta gctgggattg caggcactca ccacatgcc cggctaattt ttgaattt tagtgagac ggaatttcac catgttgccc atgtgtgtct tgaaccccg accctggatg atcgccgcgc ctggccctcc caaagtgcg gaattacagg cgaaccttca ctcaagaaga atgctgtggc cttcccttt accaacagaa aatggaacac aagagaccac atagctgaac aaattatagc ctcttacaa gtgagaaacc ttcgaggcta catagttttc agccaaagga aaataaccaa cagcttctcc acagtgtaga ctgaacaag ggaacatga acatcacaa ctgtaccaca gaggccagca tggctataag acccaagacc atcactgaga agatgctcat ttgcatgact ctggtgtgca tcaccacctt caccagttg ctgaacttgg ctgtgatcat ggctattggc accaccaaga agctccacca gctgccaac tacctaattt agctctggc cgtgacggac ctctggtgg cagtgtcgt catgcccctg agcatcatc acattgtcat ggtcgtgtg agcttgggt acttctctg tgaggtgtgg ctgagtggtg acatgacctg ctgcacctgc tccatctcc acctctgtg cattgccctg gacaggtact gggccatcac caatgctatt gaatacgcca ggaagaggac ggcgaagg ggcgctga tgatcttacc cgtctggacc atctccattt tcatctccat gccctctg ttctggagaa gccacggcgt cctaagccct cccctagtc agtgcacctt ccagcacgac catgttatct acaccattta ctccacgctg ggtgcgtttt atatccctt gactttgata ctgattctct attaccggtt ttaccacgct gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt cttttgcaag ttgtaaactt acacagactt tctgtgtgtc tgacttctcc acctagacc ctaccacaga gttgaaaaag ttccatgctt ccatcaggat ccccccttc gacaatgatc tagatcacc aggaagacgt cagcagatct ctagcaccag ggaacggaag gcagcacgca tcttggggtt gattctgggt gcattcattt tatctggct gccatttttc atcaagagt tgattgtggg tctgagcatc tacacctgt cctcggaagt ggcgacttt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgctctatc gagttttaat gaagacttta agctggcttt taaaaagctc attagatgcc gagagcatc ttagactgta aaaagctaaa aggcacgact tttccagag cctcatgagt ggatgggggt aagggtgtgca acttattaat tcttgaacat acttggttca ggagagtgtg taagtgtgtg tggctgtgtt tctgtgtg ttgtttgtt ttgttctgtt ttgtttgagg attgttattt ggcgtgtgtt tttctacctc tggcttctatc tgtgatacat aatttcaaat aaacattatc atacaaaaac aaaaaaaa aaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> NM1NCTTEA SMAIRKTIIT EKMILICMTLV VITTLTLLN LAVINAIGTT KKLHPANYL P ICSLAVTDLL VAVLVNPLSI IYIVMDRWKL GYFLCEVWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTVWTIS IFISMPPLFW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCCLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKFH ASIRIPPFEN DLDPGERQQ ISSSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGVNSLIN PLLYTSFENED FKLAFFKLIIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctgggtgc cctcaactctg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctgc aattatttg acccggaagc tgcaccatcc agccaattat ttaaattgtt ccttgccagt cacagatttt cttgtggctg tctgtgtgat gcccttcagc attgtgtata ttgtgagaga gagctggatt atggggcaag ttgtctgtga catttggctg agtgttgaca ttacctgctg cacgtgctcc atcttgcac tctcagctat agctttggat cggtatcgag caatcacaga tgcgtgttgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctcttattc tggaggcacc aaggaaactag cagagatgat gaatgcatca tcaagcacga ccacattgtt tccaccattt actcaacatt tggagcttcc tacatcccac tggcattgat ttgtacctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaagc aagtaggatt gcaaaaggag agtggaatgg ccaagtcctt ttggagagtg gtgagaaaag cactaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaagag tctcaggtct gaattcaagc atgagaaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa gcagccacta ccttgggatt aatcttgggt gcatattgtaa tatgttggct tctttttttt gtaaaagaat tagttgttaa tgcctgtgac aaatgtaaaa tttctgaaga aatgtccaat ttttggcat ggcttgggta tctcaattcc cttataaaat cactgattta cacaatcttt aatgaagact tcaagaaagc attccaaaag cttgtgcgat gtcgatgta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSSDQN LTSEELNRM PSKILVSLTL SGLALMTTII NSLVAAIIV TRKLHPNANY P LICSLAVTDF LVAVLVNPF S IVYIVRESWI MGQVVDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQTSRDD ECIIKHHDHIV STIYSTFGAF YIPLALIL YKIYRAAKT LYHKRQASRI AKEEVNGQVL LESGEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSIRS EFKHEKSWRR QKISGTREK AATTGLILG AFVICWLPFF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDEKKAFOK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcattgtacac cagcctcagt gttacagagt A gtgggtacat caagtgtaat ggtgagcaga aactataaacc tgttagtctt tctacacctc atctgctaca agttctggct tagacatgga tattctttgt gaagaaaata cttctttgag ctcaactacg aactccctaa ttcaattaaa tgatgacacc aggcctctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtgcact ctgaaaatcg aaccacactt tctgtggaag ggtgcctctc accgtctgtg ctctccttac ttcatctcca ggaaaaaaac tggctctgctt tactgacagc cgtagtgtatt attctaacta ttgctggaaa catactcgtc atcatggcag tgtccctaga gaaaagctg cagaatgcca ccaactattt cctgatgtca cttgccatag ctgatatgct tctgggtttc cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagctttgtg cagtctggat ttacctggac gtgctcttct ccacggcctc catctgcac cctcgccca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcaactcca gaactaaggc</p>	Homo sapiens

Homo sapiens

13	133	5-HT2B Receptor	NM_000867	MLLGFLVMPV SMLTILYGYR WPLPSKLCV WYILDVLFST ASIMHLCAIS LDYVVAIQNP IHHSRENSRT KAFLKIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNEVLIGSF VSFFIPLTIM VITYELTIKS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLFORSIH REPGSYTGRR TMOQISNEQK ACKVLGIVFF LFVVMCPFF ITNIMAVICK ESCNEDVIGA LINVFWIGY LSSAVNPLVY TLENKTYRSA FSRYIQCYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTD NDCSMVALGK QHSEASKDN SDGVNEKVSC V	Homo sapiens
				tactaaccat gctgaccact gttcggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaag cacaattcct gagcacattt tgcagagcac ctttgttcac gttatctctt ctaactggctc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaata taaactgcac tgggcagctc tctgatact catggtgata ataccacaa ttggtggaaa tacccttggt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaattgctc ttggcgggtg ctgatttgc ggttggttg tttgtgatgc caattgcctt cttgacaata atgtttgagg ctatgtggc cctcccactt gttctatgct ctgcttggtt attcttgac gttctctttt caaccgcatc catcatgcat ctctgtgcca tttcagtggg tcgttacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgggtttaat ttcaataggc attgcccattc cagtcctat taaagggata gagactgatg tggacaaccc aaacaatatc acttgtgtgc tgacaaaagg acgttttggc gatttcacgc tctttggctc actggctgcc tcttcacac ctcttgcaat tatgattgtc acctactttc tcaatatcca tgctttacag aagaaggctt acttagtcaa aaacaagcca cctcaacgcc taacatgggt gactgtgtct acagttttcc aaaggatga aacacctgc tegtcaacgg aaagggtggc aatgtggat ggttctogaa aggacaaggc tctgcccac ttagtgatg aaacacttat gcgaagaaca tccacaattg gaaaaagtc agtgcagacc atttccaaac aacagagagc ctcaaaagtc ctagggattg tgttttctc tttttgctt atgtggtgtc ccttctttat tacaatatata actttagttt tatgtgattc ctgtaaccaa actactctcc aaatgctcct ggagataattt gtgtggatag gctatgtttc ctgaggagtg aatcctttgg tctacacct cttcaataag acatttcggg atgcatttgg ccgatatatc acctgcaatt accggggccac aaagtcagta aaaactctca gaaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaat gggattaacc ctgccatga ccagagtcca atgaggctcc gaagttcaac cattcagctc tcatcaatca tttactaga tacgcttctc ctcaactgaaa atgaaggatga caaaactgaa gagcaagtta gttatgtata gcgaactgg cagttgtcat caaacataat gatgagtaag atgatgaatg agatgtaaat gtgccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct agatgtaag tattaagaat atctaatttt cctaatttgg acaagatttat tccatgagga aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataaat ttcaggcttt aaaaaaaaa MALSYRVSEL QSTIPEHIQ STFVHVISSN WSLQTESIP EEMKQIVVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKLQYATN YFLMSLAVD LLVGLFVMPI ALLTIMFEAM WPLPLVLCPA WFLFDVLFST ASIMHLCAIS VDRYIAIKKP IQANQNSRA TAFIKITVVW LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFOR DETPCSSPEK VAMLDGSRKD KALPNSGDET	Homo sapiens
14	133	5-HT2B Receptor	NP_000858.1		

[illegible]

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tggacatttg ttctgggtta acagttaata ttacatttc atcttggctc tgctcatca
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tctgtctctt agtaaatcc taattctatg attaaactgg gaaatgagat ccagaggtta
tttcccaacc caggattcaa catcaattgg gttttgatct cagcatcctg gaaatttgtg
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16	134	5-HT2C Receptor	NP_000859.1	ctaatctctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaagt tgaaaaaaa aaaaaaaaaa aaaa MVNLRNAVHS FLVHLIGLLV WQCDISVSPV AAIVTDIENT SDGGRFKFPD GVQWMPALSI P VIIIMTIGG NIVLNAVSM EKHLNATNY FLMSLAIDM LVGLLVMPLS LLAILYDYVW PLPRYLCPVW ISLDVLFSTA SIMHLCAISL DRVVAIRNPI EHSRNSRTRK AIMGIAIYWA ISIGSVPIP VIGLRDEEKV FVNNTTCVLN DNFVLIQSF VAFFIPLTIM VITYCLTIYV LRRQALMLLH GHTEEPPLS LDFLKCKCRN TAEENSANP NQDNARRRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFFIT NILSVLCEKS CNQKIMEKLL NVFVWIGYVC SGINPLVYTL FNKIYRRAPS NYLRCNYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSSV VSERISSV cggtgcttat ttcctgtaat ggacaaactt gatgctaagtg tgagttctga ggagggtttc A gggtcagtg agaaggtggt gctgctcacg tttctctcga cggttatcct gatggccatc btggggaacc tgctggtgat ggtggtcttg tgctggaca ggcagctcag gaaaataaaa acaaattatt tcattgtatc tcttgctttt gcggatctgc tgggttcggt gctggtgatg ccctttggtg ccattgagct ggttcaagac atctggattt atggggaggt gttttgtctt gttcggacat ctctggacgt cctgctcaca acggcatcga ttttccact gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcgca tcgcatatc gctgggaggg tgctgggtca tccccacgtt tatttctttt ctccctataa tgcaaggctg gaataacatt ggacataatg atttgataga aaagaggaag ttcaaccaga actctaactc tacgtactgt gcttctcga tcaacaagcc ctacgccatc acctgctctg tgggtgacct ctacatccca tttctcctca tgggtgctggc ctattaccgc atctatgtca cagctaagga gcatgcccat cagcatagca ctcatcgcat gagacagagc tcctccgaga gcaggccctca gctggcagac cagcatagca ctcatcgcat gagacagagc accaagcag ccaagacct gtgcatactc atgggttgct tctgctctg ctgggcacca tcttttgca ccaatattgt ggatcctttc atagactaca ctgtccctgg gcagggtggtg actgctttcc tctggctcgg ctatatcaat tccgggttga acccttttct ctacgccttc tgaataagt cttttagacg tgccttctc atcatcctct gctgtgatga tgagcgctac cgaagacctt ccattctggg ccagactgtc cctgtttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgagtggt gbtggccagt gggagagtcga gtgtcaccg ccagcaactt ctctttggt ggctgctcag cccagtgaca cttagggccc tgggacaatg acccagaaga cagccatgcc tccgaaagag ggccaggtcc taagctgctg cttgtgcgag actgcacccg gcattctctt cactgagggc ttctcgtccg caagtgcagg aaccgggtgc tcgctggg	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	cggtgcttat ttcctgtaat ggacaaactt gatgctaagtg tgagttctga ggagggtttc A gggtcagtg agaaggtggt gctgctcacg tttctctcga cggttatcct gatggccatc btggggaacc tgctggtgat ggtggtcttg tgctggaca ggcagctcag gaaaataaaa acaaattatt tcattgtatc tcttgctttt gcggatctgc tgggttcggt gctggtgatg ccctttggtg ccattgagct ggttcaagac atctggattt atggggaggt gttttgtctt gttcggacat ctctggacgt cctgctcaca acggcatcga ttttccact gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcgca tcgcatatc gctgggaggg tgctgggtca tccccacgtt tatttctttt ctccctataa tgcaaggctg gaataacatt ggacataatg atttgataga aaagaggaag ttcaaccaga actctaactc tacgtactgt gcttctcga tcaacaagcc ctacgccatc acctgctctg tgggtgacct ctacatccca tttctcctca tgggtgctggc ctattaccgc atctatgtca cagctaagga gcatgcccat cagcatagca ctcatcgcat gagacagagc tcctccgaga gcaggccctca gctggcagac cagcatagca ctcatcgcat gagacagagc accaagcag ccaagacct gtgcatactc atgggttgct tctgctctg ctgggcacca tcttttgca ccaatattgt ggatcctttc atagactaca ctgtccctgg gcagggtggtg actgctttcc tctggctcgg ctatatcaat tccgggttga acccttttct ctacgccttc tgaataagt cttttagacg tgccttctc atcatcctct gctgtgatga tgagcgctac cgaagacctt ccattctggg ccagactgtc cctgtttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgagtggt gbtggccagt gggagagtcga gtgtcaccg ccagcaactt ctctttggt ggctgctcag cccagtgaca cttagggccc tgggacaatg acccagaaga cagccatgcc tccgaaagag ggccaggtcc taagctgctg cttgtgcgag actgcacccg gcattctctt cactgagggc ttctcgtccg caagtgcagg aaccgggtgc tcgctggg	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	MDKLDANVSS EEGFGSVEKV VLLTFLSTVI LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P SLAFADLIVS VLVMPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTTASIFH LCCISLDRY AICQPLVYR NKMTPLRIAL MLGGCVIPT FISFLPMQG WNNIGIIDLI EKRKFQNSN STYCVFVNK PYAITCVVA FYIPFLMLV AYRIYVYAK EHAHQIOMLQ RAGASSESRP QSDQHSRTHR MRTEKAAKT LCIIMGCFCL CWAPFFVTNI VDPFIDYTP GQWTAFLWL GYINSGLNPF LYAFLNKSFR RAFLIILCCD DERYRRPSIL GQTVPCSTTT INGSTHVLRD AVECGGQWES QCHPPATSPL VAAQPSDT	Homo sapiens
19	138	5-HT6	NM_000871	cccagagagcg cccattcacc cccctcacc accctcccg cttcccaact ccccgcaact A cccagagagcg cccattcacc cccctcacc accctcccg cttcccaact ccccgcaact A	Homo

20	138	5-HT ₆ Receptor	NP_000862.1	<p> MVPEFGPTAN STPAWGAGPP SAPGSGWVA AALCVVIALT AAANSLIAL ICTQPALRNT P SNFFVLSLFT SLMVGLVVM PPAMINALYG RWVLARGLCL LWTAFDVMCC SASILNLCIL SLDRYLILS PLRYKLRTMP LRALALVLGA WSLAALASFL PLLLGWHELH HARPPVPGQC RLLASLPFVL VASGLTFFLP SGALCFTYCR ILLAARKQAV QVASLTITGMA SQASSETLQVP RTPRPGVESA DSRRLATKHS RKALKASLTL GILLGNFFVT WLPFFVANIV QAVDCISPG LFDVLTWLG CNSTNPIIY PLFMRDFKRA LGRLPCPRC PRERQASLAS PSIRTSHSGP RPLSLQQVL PLPLPPDSDS DSDAGSGSS GLRLTAQLLL PGEATQDPPL PTRAAAVNF FNIDPAEPEL RPHPLGIPTN </p>	<p> tgaccggcc ggagccccc cccctatctt gccgcccgcc cctccaggg ggctctgtc caaccagg gagccatcc gacctgtgt gacttcccc cegtccctt caggggccct ggctcatcg gtgcccctcc ccaacttcc aaccgtttg ctccaggagt tccctgcccc tcccaggagg cgcccaata gccacactgt gtctctctgt agtcgcgcc cctgacct gcgaccca gcgcccgc ccatgtccc cactcaact ccccggggg gcgtggtgag tegcggtctg ttctacagg cgttccccg ccagctctgc cttgcgggg gctctcatc gcttccccg caccctatca ctccttgcc gtccaccctg ggtccctcatg gtccagag cgggcccac cgccaatag ccccgccct gggggggcagg gcgcccgtc gcccggggg gcagggctg ggtggcgcc gcgtgtgcg tggctcatcg gctgacgcg gcggccact cgtgtgat cgcgtcatc tgcactcag ccggtctgc caacagctc aacttcttc tgggtgctg cttcacgtct gacctgatg tggggctggt ggtgatgct ccggccatg tgaacgcgt gtacggggc ggggtgctg cgcgcggcc ctgctgtctc tggaccgct tegacgtgat gtgctgcag gctccatcc tcaacctctg cctcatcag ctggaccgct acctgtcat cctctgcg ctgcgtaca agctgcgat gacgcccctg cgtgccctg ccttagtctt gggcgctgg agctcgccg cctctgcctc cttcctgcc ctgctgtgg gctggcaga gctggggcc gcacggccc cgtccctgg ccagtgcgc ctgctggcca gctgcttt tgcctgtg gctcggggc tcaacttctt cctgcccctg ggtgccatat gcttacct ctgcaggat ctgctagct cccgcaagca ggcgtgcag gtggcctccc tcaccaccg catggccagt caggcctcg agacgtgca ggtgcccagg accccagcc cagggttga gtctgtgac agcagcgctc tagccacgaa gcacagcagg aagccctga agccagcct gacgtggc atcctgtg gactgttctt tgtgacctg ttgcccctt ttgtggcca catagtccag gccgtgtg gctgcatctc ccaggcctc ttcatgtctc tcacatggct gggttactgt aacagacca tgaacccctc cactaccca cttctcatg gggactcaa cggggcgctg ggcaggttc tgccatgtcc acgtgtccc cgggagcgc agccagcct ggcctcgcca tcactgcga cctctacag cggcccccg cccggccta gctacagca ggtgtgctg cgtcccctg cgcggactc agattggag tcagacgag gctcaggcgt cctctgggc ctcgggtca cggcccagct gctgcttct ggagagcca cccaggacc cccgctgcc accaggcgg ctcgcggcgt caatttctt aacatcgacc ccgagagcc cagctgcgg ccgcatccac ttggcatccc caggaactga cccgggctg ggcctggcca atggggagct gatttagca gaaccagac cctgagctt tggccagct cttgctaag accaggagg tgaagtctc tagaagccc tctgagctc agaggggtg gcagagctga cccctgctg ccatctccag gcccttacc tgcagggatc atagctgact caga </p>	<p> sapiens sapiens </p>
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21	139	5-HT7 Receptor	NM_000872	<p>ccatgggacg cggcacacgg cggcgcgatg atggacgtta acagcagcgg ccgcccggac A</p> <p>ctctacgggc acctccgctc ttctctcttg ccagaagtgg ggcgcgggct gcccgacttg</p> <p>agccccgacg gtggcgccga cccggtcgcg ggctcctggg cgcgcacact gctgagcgg</p> <p>gtgacagcca gcccgcgcc cactgggac gctccccgg acaatgcctc cggctgtggg</p> <p>gaacagatca actacggcag agtcgagaaa gtgtgatctc gctccatcct gacgtctcatc</p> <p>acgtgctga cgatcgcggg caactcgctg gtgtgatctc cgtgtgctt cgtcaagaag</p> <p>ctccgccagc cctccaacta cctgacgtg tccctggcg tggcgacact ctcggtggct</p> <p>gtggcggtca tgccctcgt cagcgtacc gacctcatg gggcaagtg gatctttgga</p> <p>cacttttct gtaatgtctt catcgccatg gacgtcatgt gctgacggc ctcgacatg</p> <p>acctgtgcg tgatcagcat tgacaggta cttgggatca caagcccc cacaaccct</p> <p>gtgaggcaga atgggaaatg catggcgaag atgattctct cgtctggct tctctcggc</p> <p>tccatcacct tacctccact cttgggatg gctcagaatg taaatgatga taaggtgtgc</p> <p>ttgatcagcc aggaacttgg ctatacgatt tactctaccg cagtggcatt ttatatcccc</p> <p>atgtccgtca tgcttttcat gtactaccg atttacaaagg ctgccaggaa gagtgtgcc</p> <p>aaacacaaat ttctcggctt cctcagatg gagccagaca cgtcatcgc cctgaatggc</p> <p>atagtgaagc tccagaagga ggtggaagag tgtgcaaac tttcgagact cctcaagcat</p> <p>gaaggaaaa acatctccat ctttaagcga gaacagaaag cagccaccac cctggggatc</p> <p>atcgtcgggg cctttaccgt gtgctggctg ccatttttcc tctctcgac agccagaccc</p> <p>ttcatctgtg gcaactcctg cagctgcac ccaactgtgg tggagaggac atttctgtg</p> <p>ctaggctatg caaactctct cattaacctt ttatatatg ccttctcaa cggggacctg</p> <p>aggaccacct atcgcagcct gctccagtc cagtaccgga atatacccg gaagctctca</p> <p>gtgcaggca tgcataagc cctgaagctt gctgagaggc cagagagacc tgagtgtgtg</p> <p>ctacaaaaatg ctgactactg tagaaaaaa ggtcatgatt catgattgaa agcagaacaa</p> <p>tggaag</p>	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	<p>MMDNSSGRP DLYGHLRSL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P</p> <p>DAPDNASGC GEQINYGRVE KVVIGSILTL ITLTIAGNC LVVISVCFVK KLRQPSNYLI</p> <p>VSLALADLSV AVAVMPFVSU TDLIGGKWF GHFFCNVFA MDVMCCTASI MTLCVISIDR</p> <p>YLGITRPLTY PVRQNGKCA KMILSVWLLS ASITLPLFG WAQNVNDDKV CLISQDFGYT</p> <p>IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHKPPGPPR VEPDSVIALN GIVKLQKEVE</p> <p>ECANLSRLK HERKNISIFK REQKAATLIG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC</p> <p>IPLWVERTFL WLGYANSLIN PFIYAFENRD LRTYRSLLQ CQYRNINRKL SAAGMHEALK</p> <p>LAERPERPEF VLQADYCRK KGHDS</p> <p>atgagtgtca gaagtgtgaa ggggtcgctg tctgaatccc agagcctcct ctccctctgt A</p> <p>gaggtggca ggtgaggaag ggttaacct cactggaagg aatccctgga gtagcggct</p> <p>gctgaaggcg tcgaggtgtg gggcacttg gacagaacag tcaggcagcc gggagctctg</p> <p>ccagctttgg tgaccttggg cgggctggg agcgtcgcg cgggagcccg aggactatga</p> <p>gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc</p> <p>cctggaactt tgggactgc cttgggacc cttgcccggc agcagggcagg atggtgcttg</p> <p>cctcgtgcc cttggtgcc gctcgtgat gtcgcccgc tgtgcccgc atgcccctt</p> <p>ccatctcagc ttccaggcc gcctacatcg gcatcaggt gctcatcgcc ctgggtctctg</p> <p>tgcccgga cgtgctggtg atctggcgcg tgaaggtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674	<p>atgagtgtca gaagtgtgaa ggggtcgctg tctgaatccc agagcctcct ctccctctgt A</p> <p>gaggtggca ggtgaggaag ggttaacct cactggaagg aatccctgga gtagcggct</p> <p>gctgaaggcg tcgaggtgtg gggcacttg gacagaacag tcaggcagcc gggagctctg</p> <p>ccagctttgg tgaccttggg cgggctggg agcgtcgcg cgggagcccg aggactatga</p> <p>gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc</p> <p>cctggaactt tgggactgc cttgggacc cttgcccggc agcagggcagg atggtgcttg</p> <p>cctcgtgcc cttggtgcc gctcgtgat gtcgcccgc tgtgcccgc atgcccctt</p> <p>ccatctcagc ttccaggcc gcctacatcg gcatcaggt gctcatcgcc ctgggtctctg</p> <p>tgcccgga cgtgctggtg atctggcgcg tgaaggtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens

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Homo

Adenosine A1 NP_000665.1 MPPSISAFQA AYIGIEVLIA LVSVPGNVLV IWAQKVNQAL RDATAFCFIVS LAVADVAVGA P

272

24

Receptor	Adenosine .A2a Receptor	25	273	sapiens
LVIPLAILIN IGPQTYFHTC LMVACPVLIL TQSSILALLA IAVDRYLVRK IPLRYKMVVT				sapiens
PRRAVAIAG CWILSFVVGL TPMFGWNLS AVERAWAANG SMGEPIKCE FEKVISMVYM				
VYENFFVWL PPLILMWLIY LEVFLIRKQ LNKKVSASSG DPQKYGKEL KIAKSLALIL				
FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVIVAF RIQKFRVTFL				
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gcagtcctct cctgctgtga cagtgccat ccacttctca gtcccagggc catctcttgg				

28	274	Adenosine A2b Receptor	NP_000667.1	MLETQDALY VAELELVIAAL SVAGNVLVCA AVGTANTLQT PTNYFLVSLA AADVAVGLFA P IPFAITISLG FCTDFYGCLE LACFVLVLTQ SSIFSLLAVA VDRYLAICVP LRYKSLVTGT RARGVIAVLW VLAFIGLGLTP FLGWNKSDSA TNNCTEPWDG TTNESCCLVK CLFENVVPMMS YMYFNFFGC VLPPLLIMLV IYIKIFLVAC RQLQRTLEMD HSRTTLQREI HAAKSLAMIV GIFALCWLPV HAVNCVTILFQ PAQGNKPKW AMNMAILLSH ANSVVNPIVY AYRNRDFRYT FKHIIISRYLL CQADVKSNG QAGVQPALGV GL	Homo sapiens
29	275	Adenosine A3 Receptor	NM_000677	atctttgctg caaaggctgg gtagcggtgc tgctcagcaa agcgtaaac ctgtcaagaa A cttagcagga atagttctgg ctaaggttag gaggtgcca ccaaaagtctc tttttgttc ctctgcttct ccggtttgcc tctttatcat gagatctttt tgctaagctg gcagaaagat tgcatagtca gtgcttccag ctctgctccc accatgacct gcatgtcct ctggtccctg aatgaatgaa ctctgatacc caatcttgct tctgtgaga gttctgagct ctgtacttcc tcttggtcca tcttctgctc tttccatctt ttgtgtgaga ttgtctatct tgatggaact caaaaagcca tctcacttcc tgaacacccc ctgaagaggg ttgtttatct tgatggaact caaaaagcca aaaagctgca ggcagagggc ttgaggacat ctgtttgggg aactaagagc agcagcactt tcagatttcag tccatataga gctgtcttac agcattctgg aaacttgagg atgtgcggtg cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga agggtttcca agagatcacc ccaccagaaa agggtaggaa tgagcaagtt ggaatttta gactgtcact gcacatggac ctctgggaaag acgtctggcg agagctaggc ccaatggccc tacagacgga tcttgctggc tcacctgtcc ctgtggaggt tccccggga agcgaagatg cccaacaaca gcactgctct gtcattggcc aatgttacct acatcacctt ggaattttc attggactct gcgccatagt gggcaacgtg ctggtcatct gcgtgggtcaa gctgaacccc agcctgcaga ccaccacctt ctatttcatt gtctctctag cctgtgctga cattgctgtt ggggtgctgg tcattgcctt ggccattgtt gtcagccctg gcatacaca ccacttctac agctgcctt ttatgacttg cctactgctt atctttacc acgctccat catgtccttg ctggccatcg ctgtggaccg atacttgctg gtcaagctta ccgtcagata caagaggggtc accactaca gaagaatatg gctggccctg ggcctttgct ggctgggtgc attcctgggtg gattgaccc ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt catgccaat tgtttccgtc atgagaatgg actacatggt atactcagc ttcctcacct ggattttcat ccccttggtt gtcatgtgc ccatctatct tgacatctt tacatcattc ggacaaaaact cagtctgaac ttatctaact ccaaaagagac aggtgcattt tatggacggg agttcaagac ggctaagtcc ttgtttctgg tcttttctt gtttgcctg tcatggctgc ctttatctat catcaactgc atcatctact ttaatggtga ggtaccacag ctgtgctgt acatggggcat cctgctgtcc catgccaaact ccatgatgaa cctatcgtc tatgcctata aaataaagaa gttcaaggaa acctacctt tgatccctcaa agcctgtgtg gtctgccatc cctctgattc ttggacaca agcattgaga agaattctga gtatttatcc atcagagatg actctgtctc attgacctc agattcccc tcaacaaaca cttgagggcc tgtatgcctg ggccaaggga tttttacatc ctgtattact tccactgagg tgggagcatc tccagtgtc cccaattata tctccccac tccactactc tcttctcca ctcatctt cctttgtctc ttctctctaa ttcagtgtt ttgaggcctg acttggggagc aactattat tgatattatt gtctgttttc ctcttccca atagaagaat aagtcattgga gcctgaaggg tgcctagtgtg acttactgac aaaaggctct agttgggctg aacatgtgtg tgggtgtgac tcattccat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gcaattgtgg aattgagcag agaacctgct ctcgaggagt gctagaaga tgttgggaac agaagaaata aactgagttt aagggggact taaactgctg aattcacctg tggatgtttt tgagtaata aaagctaata g MPNNSTALSL ANVSYITMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGVLMPLAI VNSLGTIHF YSCLEMTCLL LIFTHASIMS LLAIAVDRLV VRKLTVRXKR VTHRRINLA LGLCWLVSLF VGLTPMFGWN MKLTSEYHRN VTFLSCQFVS VMRMDYMYF SFLTWIFPL VMCAYILDI FYIIRNKLSL NLSNSKETGA FYGREFKTAK SLFLVLFLLFA LSWLPISIIN CIIYFNGEVP QLVLYMGILL SHANSMMNPI VYAYKIKKFK ETYLLILKAC VVCHPSDSLD TSIEKNSE	Homo sapiens
31	309	Melanocortin NM_000529 2 Receptor (adrenocorticotrophic hormone) (MC2R)	atgaagcaca ttatacaact gtatgaaac atcaacaaca cagaagaata taattccgac A tgtcctcgtg tggttttggc ggaggagata tttttcaca tttccattgt tggagttttg gagaatctga tcgtcctgct ggctgtgttc aagaataaga atctccaggc acccatgtac ttttcatct gtagcttggc catatctgat atgctgggca gectatataa gatcttggaa aatatcctga tcattattgag aaacatgggc tatctcaagc acgtgggacg ttttgaaccc acagccgatg acatcatcga ctccctgttt gtccctctcc tgcctggctc catcttcagc ctgtctgtga ttgctggcga cgcctacatc accatcttcc acgcactgcg gtaccacagc atcgtgacca tgcgcgcgac tgtgtgtgtg cttaacggta ctggacgtt ctgcacggg actggcatca ccattgtgat ctctcccat catgtgccc acgtgatcac cttcacgtcg ctgttcccg tgatgtgtgt cttcatcctg tgcctctatg tgacatgtt cctgctggct cgatcccaaca ccagggaagat ctccaccctc ccagagacca acatgaaggg ggccatcaca ctgaccatcc tctcgggggt cttcatcttc tgctggggcc ccttgtgtct tcatgtcctc ttgatgacat tctgcccgaag taaccctac tgcgcctgct acatgtctct cttccaggtg aacggcatgt tgatcatgtg caatgcctg attgaccctc tcatatagc cttccggagc ccagagctca gggacgcat caaaagatg atcttctgca cgagtgactg gtag MKHIINSYEN INNTARNSD CPRVLPEEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P FFICSLAISD MLGSLYKILE NILIILRNMG YLKPRGSFET TADDIISLF VLSLLGSIFS LSVIAADRYI TIFHALRYS IVTMRRTVV LVITWTFCTG TGITMVIFSH HVPTVITFTS LFPLMLVFIL CLYVHMFLLA RSHTRKISTL PRANMKGAIT LTILLGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLFQV NGMLIMCNV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin NP_000520.1 2 Receptor (adrenocorticotrophic hormone) (MC2R)	tcctggccggc cgctcgttct gtgcccccg cccggccacc gacggccgag cgttgagatg A actttccgag atctcctgag cgtcagtttc gagggacccc gcccgacag cagcgaggg ggctccagcg cgggcccggg cggggggcag cggggcgccg cggcccccctc ggaggcccg gggtggggcg gcgtgcggcg gggcgccggc ggcggcgccg gcgtgtggg cgcaggcagc ggcagggaca accggagctc cgcgggggag cgggggagcg cgggcgcggg cggcgacgtg aatggcacgg cggccgtcgg ggactgggtg gtgagcgcgc agggcgtggg cgtggcgctc ttcctggcag ccttcactct tatggccgtg gcaggtaacc tgcttgcact cctctcagtg gactgcaacc gccacctgca gaccgtcac aactattca tcgtgaacct ggccgtggcc gacctgctgc tgagcgccac cgtactgcc cttcggcca ccatgagggt tctgggcttc tgggcctttg gccgcgctt ctgcgacgta tgggcggccg tggacgtgct gtgctgcacg gcctccatcc tcagcctctg caccatctcc gtggaccggt acgtggggcg gcgccactca	Homo sapiens
33	376	Alpha 1d-adrenoceptor		

34	376	Alpha 1b- adrenoceptor	NP_000669.1	ctcaagtacc cagccatcat gaccgagcgc aaggcgccg cctgctctgg gtcgtagccc tgggtggtgc cgtagggcc ctgctgggt ggaaggagcc cgtgccccct gacgagcgt tctgcggtat caccgaggag gcgggctacg ctgtcttctc ctcggtgtgc tcctttacc tgcccatggc ggtcatcgtg gtcattgtact gccgcgtgta cgtggtcgcg cgcagcacca cgcgcagcct cgaggcaggc gtcaagcgcg agcgaggcaa ggcctccgag gtggtgtgc gcattccactg tcgcggcgcg gccacgggcg ccgacggggc gcacggcatg cgacgcgcca agggccacac ctccgcagc tcgtctccg tgccctctgt caagtctcc cgtgagaaga aagcgcccaa gactctggcc atcgctggg gtgtcttctg tctctgctgg ttccctttct tctttgtcct gccgctcgcc tcttgttcc cgcagctgaa gccatcgag ggcgtcttca agtcatctt ctggctcgcc tacttcaaca gctgctgaa ccgctcatc taccctgtt ccagccgcga gttcaagcg gccctctcc gtctctctgc ctgccagtgc cgtcgtcgcc ggcgcgcgcg cctctcttgg cgtgtctacg gccaccactg gcgggcccctc accagcgcc tgccccagga ctgcgcccc cgaccgcg agttcgggcg acgcgcccc cggagcgccg ctggccctca cgcgcgtccc aaagccacc agcgccttc ccgagtggag gctgctgggg gctccgggtc gaccacgac ccagctcgcc gccaaagtct ccagcctgtc gcacaagatc ccgttcgga gaccacgac ccagctcgcc gctgctgccc agcgtcaga ggtggaggct cgcccgggg gcgcgcagc cgacagagca gctgctgccc agcgtcaga ggtggaggct gtgtccctag cgtccacaca cgagtgccc gagggcgcca cctgccaggc ctacgaatg gccgactaca gcaacctacg ggagaccgat atttaaggac ccagagacta ggcgcggag tgtgctggc ttgggggtaa ggggaccag agagcgggc tgggttctta agagcccccg tgcaaatcg agaccggaa actgatcagg gcagctgctc tgtgacatcc ctgaggaact gggcagagct tgaggtgga gcccttgaa ggtgaaaagt agtggggccc cctgctggac tcaggtgcc agaactctt tcttagaagg gagaggtgc ggcctccgtg gggccttttg ctcccaatcc ctatttgaga aacactgccc catcctccat gccctgaacc ctgagtagac agccccagc atggccagga agcctgccc MTFRDLSVS FEGRPDSSA GGSSAGGGG SAGGAAPSEG PAVGVPGGA GGGGVVAG P SGEDNRSSAG EPGSAGAGD VNGTAAVGL VVSAQGVGVG VFLLAFILMA VAGNLLVILS VACNRHLQTV TNYFIVNLAV ADLLLSATVL PFSATMEVLG FWAFAFCD VWAADVLC TASILSLCTI SVDRYVGVRR SLKYPAMTE VMYCRVYV ARSTRSLEA GVKRERGKAS PDERFCGITE EAGYAVFSSV CSFYLPMAVI SSVLRLLKF SREKKAATL AIVGVFVLC EVVLRHRCG AATGADGAHG MRSKAGHTFR SSVLRLLKF SREKKAATL AIVGVFVLC WFFFFVPL GSLFQLKPS EGVEKVIWL GFNSCVNPL IYPCSSREFK RAFLLRLRCQ CRRRRRRRPL WRVYGHWRRA STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM QAPVASRRKP PSAFREWRLL GFRRRTTQL RAKVSSLSHK IRAGGAQRAE AACAAQRSEVE AVSLGVPHEV AEGATQAYE LADYSNLRET DI agggcaggaga cgtgctcgcg gctgggctgc ccgggggaga tgactctgc caggaggcg A cctctgggaa gaagaccacg ggggaagcaa agtttcaggg cagctgagga gccttcgccg cagcccttc gagcccaatc atccccag ctatggaggg cggactctaa gatgaatccc gactggaca ccggccacaa cacatcagca cctgcccact ggggagagtt gaaaaatgcc aacttactg gccccaacca gacctgagc aactccacac tgcccagct ggacatcacc agggccatct ctgtgggcct ggtgctgggc gccttcatcc tctttgccat cgtgggcaac	Homo sapiens
35	377	Alpha 1b- adrenoceptor	NM_000679		Homo sapiens

36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tcttgtctgt ggctgtcaac cgccacctgc ggacgcccac caactacttc attgtcaaac tggccatggc cgacctgtgt ttgagcttca ccgtccctgc cttctcagcg gccctagagg tgcctggcta ctgggtgtgt gggcgatct tctgtgacat ctgggcagcc gtgatgtcc tgtgtgtcac agcgtccatt ctgagcctgt ggcctatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat cccacgtgtg tcaccggag gaagcccatc ttggcgctgc tcaagtgtct ggcttgtcc accgtcatct ccctcggcc tctccttggg tggaaggagc cggcaccaca cgatgacaag gagtgcggg tcaccgaaga acccttctat gccctcttct cctctctggg ctccttctac atccctctgg cggtcatctt agtcatgtac tgccgtgtct atatagtggc caagaagacc accaagaacc tagaggcagg agtcatgaag gagatgtcca actccaaggc gctgacctg aggtacctt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aacccaggga gttccatagc tgtcaaaatt tttaagtctt ccagggaata gaaagcagct aagacgttgg gcatttgtgt cctcaccctg atcttgtgtt ggtacctt cttcatcgtt ctaccgcttg gctccttgtt ctcaccctg aagccccccg acgcgtgtt caagtggtg tcttgcttgg gctacttcaa cagctgcctc aaccccatca tctaccatg cccagcaag gatttcaag gcgttttgt gcgcacctc gggtgccagt gccggggcgg cggccgcgc cgaacccgc gccgcctgc cctggggcgc tgccctaca cctaccggcc gtggacgccc ggcggctcgc tggagcgtc gcagtcgccc aaggactcgc tggacgacag cggcagctgc ctgagcggca gccagcgag cctgcccctg gcctgcgca gcccggtcta cctgggccc ggcgcgccac gccagtcga gctgtgcgc ttccccagt ggaaggcgc cggcgccctc ctgagcctgc ccgcgctga gcccccgcc cgcccgccg gccacgact cggcccgctc ttacacttca agtccctgac cgagcccgag agccccgga cggacggcgg gccagcaac ggaggtcgg aggcgcggc cgagctggcc aacgggcagc cgggcttcaa aagcaacatg cccctggcg ccggcgagtt ttagggcccc cgtgcgcagc tttcttccc tggggaggaa aacatcgtgg ggggga</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>EPSPGTDGG ASNGGCEAAA DVANGQPGFK SNMPLAPGQF gaattccgaa tcatgtgcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cggaaaagca gattctcgt aattctggaat tgcattgtgc aaggagtctc ctggatcttc gcaccagct tcgggttagg agggagtccg ggtccccggc taggccagcc cggcaggtgg agagggtccc cggcagcccc gcgcgcccc ggcctatgct ttaatgcctt gcccttcat gtggccttct gaggttccc agggctggcc aggttggttt cccaccgcg cgcgcgtct caccocagc caaaccacac tggcagggc cctccagcc gagacctttt gattccggc tcccgcgtc ccgctccgc gccagcccc gaggtggccc tggacagccg gacctgccc ggccccggct gggaccatgg tgttctctc gggaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	<p> caaaccgcg gcaccggtga acatttccaa ggccattctg ctcggggtga tcttggggggg cctcattctt ttcggggtgc tgggtaacat cctagtgtc ctctccgtag cctgtcaccg acacctgcac tcagtcacgc actactacat cgtcaacctg gcggtggccg acctcctgct cactccacg gtgctgcctt tctccgcat cttcgaggtc ctaggctact gggccttcgg cagggtcttc tgaacatctt ggcggaagt ggtgagctg tgcgtgacccg cgtccatcat ggcctctgc atcatctcca tggaccgcta catcggcgtg agctaccgc tgcgtaccc aaccatcgtc acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggtcatatcc attggacccc tgttcggctg gaggcagccg gccccgagg acgagacccat ctgcagatc aacgaggagc cgggtacgt gctcttctca gcgctgggt cctctacct gcctctggcc atcatcctgg tcatgtactg ccgctctac tgggtggcca agaggagag ccggggcctc aagtctggcc tcaagaccga caagtcggac tcggagcaag tgacgtccg catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcacttctca gtgaggctcc tcaagtctc ccgggagaag aaagcgcca aaacgtggg catcgtggtc gctgcttcg tctctgctg actgctctt tcttagtca tggccattgg gtcttcttc cctgatttca agcctctga aacgtttt aaatagtat ttggctcgg atatctaac agctgcatca accccatcat ataccatgc tccagccaag agttcaaaa ggcctttcag aatgtcttga gaatccagt tctccgaga aagcagtctt ccaacatgc cctgggctac acctgcacc cggcagcca ggcgtggaa gggcaacaca agacatgggt gcgcatccc gtggatcaa gagagacct ctacaggatc tccaagacgg atggcgtttg tgaatggaaa ttttctctt ccatgcccc cccgggtgag aagtaaaagc ttttggagg tctgctgctg ccaatcctcc tgaaccacag cccgggtgag gaactaaagc gttccaaacca ttaagggtcca tgtagggccc tcaaccccc ccttgacaa gcttgagga agtctaggac agaaagatg cagaggaaa caccatctcc ctcaagtga accgggagga agtctaggac agtctaggac agtctaggac gggaataatc ttaggtacc accccactc ctctcgaa ggcagctct tcttggagg caagacagga ccaatcaaag aggggacct ctgggaatg ggtgggtgg agaccaact catcaggcag cgggtaggc acagggaaga gggagggtgt ctcaacacca accagttcag aatgatacgg aacagcattt cctgcagct aatgcttct tggctactct gtgcccactt caacgaaaac caccatggga aacagaattt catgcacaat ccaaaagact ataaatatag gattatgatt tcatcatgaa tatttgagc acacactcta agttggagc tatttcttga tggaagtgag gggattttat tttcaggctc aacctactga cagccacatt tgacatttat gccggaattc </p>	Homo sapiens
379	Alpha 1c- adrenoceptor	NP_000671.1	<p> SSNCTQPPAP VNISKAILLG VILGGLILFG VLGNILVILS VACHRHLSV P THYIYNLAV ADLITSTVL PFSAlFEVLG YWAFGRVFCN IMAAVDVLCC TASIMGLCII SIDRYIGVSY PLRYPTIVTQ RRLMALLCV WALSLVISIG PLFGWRQPAP EDETCQINE EPGYVLFSAI GSFYPLAI I LVMYCRVYV AKRESRGLKS GLTKDSSE QVTLRIHRKN APAGSGMAS AKTKTHFSVR LLKFSREKKA AKTLGIWVC FVLCWLPFFL VMPISFFPD FKPSETVFKI VFWLGYLNSC INPIIYPCSS QEFKAFQNV LRIQCIRKQ SSKHALGYTL HPPSQAVEGQ HKDMVRIPVG SRETfYRISK TDGVCEWKFF SSMPRGSARI TVSKDQSSCT TARVRSKSL EVCCCVGPST PSLDKNHQP TIKVHTISLS ENGEV </p>	Homo sapiens
387	Alpha 2a- adrenoceptor	NM_000681	<p> gcgctcgccg cccaccaggc ggacgcccag gagaacccct gcctcgtcgc cggctcctgg A agagctgac gtccacatgc cccggccccg ctgaggacgg ggggtgccttc atgcggcccc </p>	Homo sapiens

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96/448

40	Alpha 2a- adrenoceptor	AAA51664.1	<p>gctcacaaaa ggttaaatgga tggggggttac ctaggccctgg ctaattcccc ttccattccc aactctctct ctctttttga agaaaaatgc taagggcagc cctgcctggc cccccatcc ccgctgtgaa atatacata tttttgatag cacacatagg gcccacatat ctcttgccct tgggtttgat gttgaaatcc tggccctggg agagatgcct tccaggcaga cacagctgtc tgggttcaggc caagccctct tcaccagcaa ctggtgactg tcccttcgac acggacatgc tttgagattt gtcgtcgcttt tcaccagcaa aaaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt cctgacaggg aaaaagatttc atattatgat ggtggatcaa gacataagta aatgagcctt tctgcctcac tccatgtaa atattatgat ggtggatcaa gacataagta aatgagcctt tctgcctcac atcagccctg tgtataaagc cattattctc tgatgcaactg tttgccccag taactcaact taaaacctct ctctccagtg ttcctctctc cctccaggg ccaactgttg aagaagaata tgtatgtttc tatctcttat gtctgtgtgc cctccctgcc ccgaaagtgc tgactatggg gaaatctttt agctgctgtt tttagactcc aaggagtga aattatgtgg aagaagcaaa cctgatacaa tttgcccagg gtaaacagtt tgaagaagaca aatgggcttg ccaaacgtga cagtttcttc cccaagagct gttaggatc aaaaagtgtt cctttccccc ctccgtgctt ttctgggtga gatcatgtca ttgatgaact gccaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcactctt atctcaataa agaaaaacta atgtcagcac atgttgctaa tgacagtggg tttttttta aataaaaaag tttacagatc aaatgtgaaa taaatatgaa tggagtgtgc aaa MGSIQPDAGN ASWNGTAPG GGARATPYSL QVTITLVCLA GLMLLTVFG NVLVIIVFT P Homo SRALKAPQNL FLVLSASADI LVATLVIPFS LANEMVGIYI FGKTWCEIYL ALDVLFTSS sapiens IVHLCAISLD RYWSITQALE YNLKRTPRRI KAIITTCWVI SAVISFPPLI SIEKKGSGGG PQPAEPRCEI NDQWYVISS CIGSFFAPCL IMILVYRIY QIAKRRTVP PSRRGPDAVA APPGTERRP NGLGPERSAG PGGAEEPLP TQLNGAPGER APAGPRDTDA LDLEESSSD HAERPPGPRR PERGPRGK GK ARASQVKPGD SLRGAGRGR GSGRLQGRG RSASGLPRRR AGAGGQNLK RFTFVLAVI GVFEVCWFPE FTYTTLTAVG CSVPRTLEKE FFWFGYCNS LNPVIYTIEN HDFRFAFKKI LCRGDRKRIV</p>	387
41	Alpha 2b- adrenoceptor	NM_000682	<p>atggaccacc aggaccctta ctccgtgcag gccacagcgg ccatagcggc ggccatcacc A Homo ttcctcattc tctttaccat ctccggcaac gctctggtca tcctggctgt gttgaccagc sapiens cgtcgtctgc gcgcccctca gaacctgttc ctggtgtcgc tggccgcccgc cgacatcctg gtggccacgc tcatactcc ttctcgtctg gccaacagagc tgcctgggcta ctggtacttc cggcgacagt ggtgcgaggt gtacctggcg ctgacagtgc tcttctgcac ctgctccatc gtgcacctgt gcgccatcag cctggaccgc tactggggccg tgagcccgcc gctggagtac aactccaaag gcaccccgcg cctcatctac agggcgacc agggccccca gccgcgcggg gcgctcatct cgtgcgcgc cctcatctac agggcgacc agggccccca gccgcgcggg cgccccagt gcaagctcaa ccaggaggcc tggatcatcc tggcctccag catcgatct ttctttgctc ctgctcctcat catgatcctt gtctacctgc gcatctacct gatcgccaaa cgagcaacc gcagaggtcc caggggcagg ggggggctcg ggcaggtgta gtccaagcag ccccgacccg acctgtgtgg ggttttgccc tgagcccaac tgccagccct ggcctctgtg gcttctgcca gagaggtgtaa cggacactcg aagtcacatg gggagaagga ggagggggag acctctgaag atactgggac ccgggccttg ccaccagt gggctgcctt tcccaactca ggccagggcc agaaggaggg tgtttgtggg gcattctccag aggatgaagc tgaagaggag</p>	388

42 388 Alpha 2b- NP_000673.1 MDHQDPYSVQ ATAAIAAIT FLILFTIFGN ALVILAVLTS RSLRAPQNLF LVSLAADIL P Homo

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gctattttat caataaagg tattttgtaa taag

adrenoceptor	Alpha 2c- adrenoceptor	389	NM_000683	Homo sapiens	
VATLIIPFSL	ANELLGYWF	RRTWCEVYLA	LDVLFCTSSI	VHLCALSLDR	YMAVSRALRY
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FFAPCLIMIL	VYLRILYIAK	RSNRRGPRAK	GGPGQGESKQ	PRPDHGGALA	SAKLPAALASV
ASAREVNGHS	KSTGEKEEGE	TPEDTGTAL	PFSWAALPNS	GQOKEGVCG	ASPEDEAEEE
EEEEEEEEEC	EPQAVPVSPA	SACSPPLQOP	QGSRLVATLR	GQVLLGRGVG	AIGGQWRRRR
AHVTREKRFT	FVLAVVIGVF	VLCWFPEFFES	YSLGAICPKH	CKVPHGLFQF	FFWIGYCNSS
INPVIYITFN	QDFERRAFRI	LCRPWTQTAW			
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ctctcgcgcg	ccagctcgcg	ctccgctcag	ttcttctgt	cgcgcgcggc	ccgggcgcgc
agcagcgtgt	gccgcggcaa	ggtggccccag	gcgcgcgaga	agcgcttcac	ctttgtgctg

43

389

Alpha 2c-
adrenoceptor

NM_000683

44	389	Alpha 2c- adrenoceptor	NP_000674.1	AVAAAGPNA LVIAVLTSR QVWCGVYAL VISFPLVSL TRLSEKRAP RRGRRRAGA RARSSVCRK FFWIGYCNSS	SGAGERGSG ALRAPQNLF HLCALSLDRY QCGLNDETWY ENGLGAAAGE GAGPGAQSG FVLAVVMGVF QDFRPSFKHI	VANASGASWG VSLASADILV WSVTQAVEYN ILSSCIGSFF APCLIMGLVY PTWSRTRAAQ GGRLSRASSR VLYGICREA	PPRQYSAGA ATLVMFSLA LKRTPRRVKA ARIYRVAKRR RPRGGAPGPL SVEFFLSRRR CQVPGPLFKF	Homo sapiens
45	599	Bradykinin B1 Receptor	NM_000710	ctgtgcatgg ttccctcaaa gtgctgccga ctgttggtct ctggcagcct aaccagttta gccaatttgt ctggtgcacc gtgctcatct caagccgtcc cactttgcaa gtcttcttca agagtgcggg ttccttggtct caagcagtc ttctttgcct ttcaggacca tcttcatccc	catcatcctg atgctacggc catttatcat tctctctggc ctgatctggt actggccttt tcatacagcat ctatggccag gggttggtgg cagatctgaa ggattgtgga actaccacat ggccgaagga gctgggcccc gaggctgctt tactaacaag aggtctggga	gccccctcta ctgtgacaa ctccatctgt ccggcggcaa gtttgtcttg cggagccctc cttcttggtg cggaaaggcag ggcctctctg catcacgcc gttaaatatt cctggcctcc tagcaagacc ttaccacttc ttgggaggac ctccctgaat actttataaa aatcttccaa	gagctccaat ctgccagaa tcttctggcc cagaatacta tctgggcaga gaatatctgg tcatcaacgg gccaggaccg ggcaggcccg cattctctgt tctctcccca tcctaccact ctgggtttcc ctgcgaacgc tcttcacgtg tggaattctt tgggctgca ccagtaattt ctaaagctct ggaattaaaa	Homo sapiens

cc

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPLLEL QSSNQSLFF QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P VELLPRLQLN VAEIYLALNA ASDLVEVLGL PFWAENIWNQ FNPWFGALLC RVINGVIKAN LFISIFLWA ISQDRYRVLV HPMASGRQQR RQARVTCVL IWVVGGLSI PTFLLRSIQ VPDLNITACI LLLPHEAWHF ARIVELNIG FLPLAAIVF FNYHILASLR TREEVSRTV RGPKDSKTTA LILTLVVAFL VCAPIYHFFA FLEFLFQVQA VRGCFWEDFI DLGLQLANFF AFNSSLNPV IYFVGRFLR TKWELYKQC TPKSLAPISS SHRKEIFQLF WRN	Homo sapiens
47	600	Bradykinin B2 Receptor	NM_000623	atgtctctc tcaggaagat atcaatgttt ctgtctgttc gtgaggatc cgtgccacc A acggcctctt ccagcgcca catgtctaat gtcaccttgc aagggccac tcttaacggg acctttgcc agagcaaatg ccccaagtg gagtggctgg gctggctcaa caccatccag cccccttcc tctgggtgct gtctgtgctg gccacccctag agaactctt tgtcctcagc gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctggg gaacctggcc gcagcagacc tgatcctggc ctgcgggctg ccttctctgg ccatcaccat ctccaacaac ttcgactggc tctttggga gacgtctgc cgtgtgtga atgccattat ctccatgaac ctgtacagca gcatctgtt cctgatgctg gtgagctgc accgtacct ggccttggg aaaaccatgt ccatggggc gatgcggc gtgctgtgg ccaagctcta cagcttggg atctgggggt gtacgtgct cctgagctca ccatgctgg tgttccggac catgaaggag tacagcgatg agggccaca cgtcacgct tgtgtcatca gctaccatc cctcatctg gaagtgttca ccaacatgct cctgaatgtc gggggcttcc tgtgcccct gagtgtcatc accttctgca cgtgcagat catgcaggtg ctgcggaaca acgagatgca gaagttcaag gagatccaga cggagaggag ggcacgggtg ctagtctctg ttgtgctgct gctattcatc atctgctggc tgccttcca gacagcacc tctctggata cgtgcatgc cctcggcatc ctctccagct gccaggaca ggcacatc caacccactg gtgtacgtga tctgttccga gcctacagca acagctgct caacccactg gtgtacgtga tctgtggcaa gcgttccga aagaagtctt gggaggtgta ccaggagtg tgcagaaa ggggctgcag gtcagaacct attcagatgg agaactccat gggcacactg cggacctcca tctcctgga acgcagatt cacaactgc aggaactggc agggagcaga cagtgagcaa acgcccagc ggtgctgtg aatttgtgta aggattgagg gacagtgtct ttccagcatg gcccaggaa tgccaaggag acatctatgc acgacctgg gaaatgagt gatgtctccg gtaaaacacc ggagactaat tcctgcccctg ccaaatctt caggagcat acagcatta ctgttcttat ttgctgccac acctgagcca gccaaggact tcccaggagt ggaggaggcc ttggggggag gagaggagt actgagcttc gctgctctt tcttccctc cctgccccag caagacaact tagatctcca ggagaactgc ctctccgtgt tgggtgcaatg gctgagtga caagtgagt ttgtccctgg gttctttaa catccagctt tgggtgcaatg gctgagtga tctgtgatta ataaaggtta agcctgagg tctattcagc tagaactttg aaggacaatt tctgtgatta ataaaggtta agcctgagg ggtccctgat acaaacctgg agaccaggat ttatggctc cctcactga tggacaagga ggtctgtgcc aaagaagaat ccaataagca catattgagc acttgcgtga tatgcagtat tgagcactgt aggcaagacc caagaaagag aaggagccat ctccatcttg aaggaaactca aagactcaag tgggaacgac tgggactgc caccaccaga agctgttctg acgagacggt cgagcagggt gctgtgggtg atatggacag cagaaggggg agaccagggt tccagctcaa ccaataacta ttgcacaacc acctgtcctt gctcagttc cttttatgt aacatgaagt cgttgtgagg gttaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtgtac	Homo sapiens

48	600	Bradykinin B2 Receptor	NP_000614.1	<p>gtacatgtga ggcatacatta cgcagacgta actgggatat gtttactata aggaaaagac actgaggtct agaaatagct ccgtggagca gaatcagtat tgggagccgg tggcgtgtg aagcaccagt gtctggcaca cagtagtgct ccttggctc ccttccacct gtcattocca ccaccctgag gcccaaccg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaa atatttctaa tgggtcttgc ccagagcattc acagtgtga acccccccac caccagccgg taccttggaa gggggagagt gcaggcctgc tcagggactg ttctgtctc agcaaccaag gattgttcc tgtcaatcaa tggtttattg gaagtggtgc cagtatgagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc cagggcagca ctcaattcact tgataaatga atatttatta gctgggttggg gagctagaac ctggagagct agaacctgga gaactagaac ctggagggct. agaaacctgga gaggctagaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaacc tgagctagaa gctggaggac tagaacctgg agggctggaa tctgaagggc tagaacctgg agggctggaa tctggagagc tagaacctgg agggctagaa cctggagggc tagaacctag aagggtctaga acctggaggg ctggaatctg gagagctaga acctggaggg ctagaacctg gagggtctaga acctagaagg gctagaacct gaggggctag aacctggcag gttagaacct agaagggcta gaacctggag agccagaacc tggagggcta gaacctggaa gggctagaac ctgtagagct agaactgga gagctagaac ccggcaggct agaacctggc agctagaac ctggagggaa tgaacctgga gggctagaac ctggagaatg agaaaaatct acatggcaaa gagcccataa atcctgacca atccaactct gaatttttaa gcaaaagcgt gaaaaaaag attccctcct taccaccaac ccactctttt tccccaccac ccactctcct ctgcctcagt aagtatctgg aggaagaaaa caggtgaaag aagaagtaaa aaccttttag tattagtatt agaatgaagt caaactgtgc cacacatggt gaatgaaaaa aaaaaaaag aggtgtgtt ttgtcacaca ggcagatcat tcagcaccag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgcaatg acctgtggg atccacacct ggtctgaggg gcaactgagt ctgcgggaga agagcgccc tatgcatggt gtagatgccc tgataaagaa catctgtcct gtgaaaagact caatgagctg ttatgttgtg aacaggaaagc atttcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaa aaa</p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000684	<p>tgctacccgc gcccggtctt ctgggtgtgt ccccaaccac ggcccagccc tgccacccc A cccgcccccgc gcctccgcag ctcggtatgg ggcggggggt gctcgtctctg ggcgctccg agcccggtaa cctgtcgtcg gccgcaccgc tcccgcacgg cgcggccacc ggcgcgcggc tgctgggtgcc cgcgtcgcgg ccgcctcgt tctgcctccc gccagcgaa agccccgagc cgctgtctca gcagtggaca gcgggcatgg gtcgtctgat ggcgtctatc gtgctgtctca tcgtggcggg caatgtgtcg gtgatcgtgg ccatcgccaa gacgcgcgg ctgcagcgc</p>	Homo sapiens

50	635	Beta-1 adrenoceptor	NP_000675.1	<p> taccacacct cttcatcatg tccctgggcca ggcgcgacct ggtcatggggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgtggga gtacggctcc ttctctgctg agctgtggac ctacgtggac gtgctgtggg tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcact cgccttccg ctaccagagc ctgctgacgc gcgcgctggt cgtgggcttc gtgtgacacg tgtgggacct ctgggacctg gtgtctctcc tgccatcct catgcaactg tggcgggcg agagcgacga ggcgcgccc tgctacaacg accacaagt ctggacttc gtcaccaacc ggcctacgc catcgctcgc tccgtagtct ccttctacgt gccctgtgc atcatggcct tctgtacct gcggtgttc cgcgagccc agaagcaggt gaagaagtc gacagctgc agcgcgttt cctcggcggc ccagcgcggc cgccctgccc ctgcccctgc ccgtccccg cgcgcgcgc gccgcccga cccccgcgc ccgcgcgcgc cgcgcgcacc gcccgctgg ccaacggcg tgcgggtaag cggcggccct cgcgcctct gccctacgc gagcagaag cgtcaagac gctgggcatc atcatggcg tcttcacgt ctgtgctg ccttcttcc tggcacaagt ggtgaaggcc tccaccgcg agctggtgcc cgaacgctc tctgtctct tcaactggt ggttacgccc aactcggct tcaaccccat catctactgc cgcagcccc acttcgcaa ggccttccag gactgctct gctgcgcgc caggctgccc cgcgcgcgc acgcaccca cggagacgg ccgcgcgcct cggtctgtct ggcgcgcgc cgcgcgcgc catcgcccg ggcgcctcg gacgacgacg acgacgatgt cgtcggggcc cgcgcgcgc cgcgcctgt ggcgcctgg gccgctgca acggcggggc ggcgcgggac agcactcga gcttgacga gccgtggcg ccggcttcg cctcggaatc caaggtgtg ggcgcgcgc ggcgcgcga ctcggggcac ggcttcccag gggaacgag agatctgtgt ttaactaaga cgtagtagca gtgaactcga agccacaat cctcgtctga atcatcgcg gcaaaagaa agccacgga cgttgacaca aaaaagaaa tttgggaagg gatgggagag tggctgtgt agttccttg ttg </p>	Homo sapiens
51	640	Beta-2 adrenoceptor	NM_000024	<p> MGLMALIVL LIVAGNVLVI VAIKTPRLQ TITNLFIMSL ASADLVNGLL VVPGATIVV WGRWEYGSFF CELWTSVDVL CVTASIELC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLPIIMHWR AESDEARCY NDPKCCDFVT NRAYAIASSV VSFYVPLCIM AFVYLRV FRE AQKQVKIDS CERRELGGA RPPSPSPV PAPAPPGPP RPAAAAATAP LANGRAGRR PSRLVALREQ KALKTGIIIM GVFTLCWLFP FLANVVKAFH RELVPDRLFV FFNWIGYANS AFNPIYCRS PDKRAFOQL LCCARRARR RHATHGDRPR ASGCLARPGP PPSPGAASDD DDDVVVGATP PARLLEPWAG CNGGAADSD SSLDEPCREG FASESKV actcgaagc gcttcttca gagcacggc tgaactggc aggcacggc agcccctagc A accgacaaag ctgagtgctg agcacgagtc cccaccacac ccacaccaca gccgctgaat gagcttcca ggcgtccgct cgcggccgc agagccccgc cgtgggtccg ccgctgaggg cgccccagc cagtgcgtt acctgccga ctgcgcgcca tggggcaacc cgggaacggc agcgccttct tgcggcacc caatagaagc catgcgcgcg accacgacgt caccagcaa agggacagag tgtgggtggt gggcatggc atcgtcatgt ctctcatcgt cctggccatc gtgtttggca atgtgctggt catcacagcc attgcaagt tcgagcgtct gcagacggtc accaactact tcatcacttc actggcctgt gctgacttgg tcatgggctt ggcagtgggtg cccttggggg ccgcccatat tcttatgaa atgtggactt ttggcaactt ctggtgctgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagaccct gtgctgtgac </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtgc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc ggtgatcat tctgatgtg tggattgtgt caggccttac ctcttcttg ccattcaga tgcactggta cggggccacc caccaggaag ccatcaactg ctatgccaat gagacctgct gtgacttctt cactgaacca gcctatgcca ttgectcttc catcgtgtcc ttctacgttc cctggtgat catggtcttc gctactcca ggtcttttca ggaggccaaa agcgactcc agaagattga caaatctgag ggcgcttcc atgtccagaa ccttagccag gtggagcagg atgggggac ggggcatgga ctccgagat cttccaagt ctgcttgaag gagcacaaag cctcaagac gttaggcatc atcatgggca ctttccct ctgctggctg cccttcttca tcttaacat tctgcatgtg atccaggata acctcatccg taaggaaagt tacatccctc taaattggat aggtatgtc aattctggtt tcaatccct tatctactgc cggagcccg atttcaggat tgccttccag gagcttctgt gcctggcag gtcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taactgtg tgtgaagacc tcccaggcac ggaagacttt gtgggccatc aagttactgt gctagcgtt aacattgatt cacaaggag gaattgtagt acaaatgact cactgctgta agcagtttt tctactttta aagaccccc ccccccaac agaacactaa acagactatt taacttgagg gtaataaaact tagaataaaa ttgtaaaat tgtatagaga tatgcagaag gaagggtc ctctgcctt ttttatttt ttaagctgta aaaagagaga aaacttattt gattgattat ttgttatttg tacagttag ttctctttg catggaattt gtaagtttat gtctaaagag ctttagtctt agaggacctg agtctgctat atttcatga cttttccatg tatctacctc actattcaag tattagggtt aatatattgc tgtgtgtaat ttgtatctga aggagatttt ccttcttaca ccttggtact tgaggatttt gagtatctcg gacttttcag ctgtgaacat' ggactcttcc cccactctc ttatttgcctc acacggggta ttttaggcag ggatttgagg agcagcttca gttgttttcc cgagcaaaag tctaaagttt acagtaata aatgtttga ccatg</p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p>SLIVLAIVFG NVLVITAIK P FGNFWCEFWT SIDVLCVTAS SGLTSFLPIQ MHWYRATHQE RVFQEAQRQL QKIDKSEGRF TFTLCWLPFF IVNIVHVIQD CLRRSLKAY GNGYSSNGNT SQQRNCSTND SLL</p> <p>gctactcctc ccccaagagc ggtggcacg agggagtgg ggtggggga ggtgagcgc A tctggctggg acagctagag aagatggccc aggtgggga agtcgtctc atgcttgcct gtccctccc ctgagccagg tgatttgga gacccctcc tctcttctt ccttaccgc ccacgcgcga cccggggatg gctccgtggc ctcaagagaa cagctctctt gccccatggc cggacctccc caccctggcg cccaataccg ccaacaccag tgggctgcca ggggttccgt gggaggcggc cctagccggg gccctgtgg cgtggcggt gctggccacc gtggaggga acctgtggt catcgtggc atcgctgga cctcgagact ccagaccatg accaacgtgt tcgtgacttc ctggccgca gccacctgg tgatgggact cctggtggtg ccgccggcgg ccacctggc gctgactggc cactggcgt tgggcccac tggctgcgag ctgtggacct cgtgtgtgtg accgccagca tggaaacctt gtgcccctg gccgtggacc</p>	Homo sapiens

54	Beta-3 adrenoceptor	NP_000016.1	MAPWPHENSS LAPWPDLPPL APNTANTSGL PGVPWEAALA GALLALAVLA TVGNNLLVIV P	Homo sapiens
643			ATAMTPRLQT MTNVFVTSIA AADLVMLGLV VPPAATIALT GHWFLGATGC ELWTSVDVLC	
			VTASIELTCA LAVDRYLAVT NPLRYGALVT KRCARTAVLV VMVSAVSF APIMSQWVRV	
			GADAEQORCH SNPRCCAFAS NMPYVLLSSS VSFYPLLLVM LFVYARFVW ATRQLRLLRG	
			ELGREPPEES PPAPRSRAP APVGTCAPE GVPACGRRA RLPLREHRA LCTLGLIMGT	
			FTLCWLPFLL ANVLRALGSP SLVPGPAFLA INWLGVANSA ENPLIYCRSP DFRSAFRLL	
			gctacctggc tgtgaccaac ccgctgcgtt acggcgcaat ggtaccaag cgtgcgcc	
			ggacagctgt ggtcctgggtg tgggtcgtgt cggccgcggt gtcgtttgcg cccatcatga	
			gccagtgggtg gcgcgtagggt gccgacgccg aggcgcagcg ctgccactcc aaccgcgct	
			gctgtgcctt cgcctccaac atgcccacg tgcgtctgtc ctctccgtc tccttctacc	
			ttcctcttct cgtgatgttc ttgctctacg cgcgggtttt cgtggtggct acgcgcagc	
			tgcgttgcct gcgcggggag ctgggcgct ctggcccgga ggaagtctccg ccggcgccgt	
			cgcgctctct ggcccgggcc ccggtgggga cgtgcgctcc gccgaagggt gtccccgct	
			ggggccggcg gccgcgcgc ctctgcctc tccgggaaca cggggccctg tgacacctgg	
			gtctcatcat gggaaccttc actctctgt ggttgccctt ctcttgccc aactgtctgc	
			ggccctgggt ggcccctct ctagtcccg gccggctttt ccttgccctg aactggctag	
			gttatgcaa ttctgccttc aaccgctca tctactgcg cagccggac ttctgcagcg	
			cttccgcggt tcttctgtgc cgtgcggcc gtcgcctgcc tccggagccc tgcgcgcg	
			ccgcgccggt cctcttccc tgggcgttc ctgcggccc gageagccca gcgcagccca	
			ggctttgcca acggtcgac ggggtctctt ggggagtttc ttaggcctga aggacaagaa	
			gcaacaactc tgttgatcag aactgtgga aaacctctgg cctctgttca gaatgagtc	
			catgggattc cccggctgtg aactctacc ctccagaacc tgacgactgg gccatgtgac	
			ccaaggagggt atccttacc agtgggtttt caccatctc ttgctctctg tctgagagat	
			gtttctaaa cccagcctt gaacttact cctccctcag tggtagtgtc caggtgccgt	
			ggagcagcag gctggctttg gtaggggcac ccatcacccg gcttgctctgt gcagtcagt	
			agtgcctagg gaaaagag ctcccctggt tccattcctt ctgccacca aacctgatg	
			agaccttagt gttctcagg ctctgtggcc caggtctgaga gcagcaggtt agaaaagacc	
			agattttggg gttttatctc tggttccctt attactgctc tcaagcagtg gctctctca	
			ctttagccat ggaatggctc cgatctacct cacagcagtg tcagaaggag ttccgccagg	
			ttttgggagc tccagggttc ataagaagt gaaccattag aacagatccc tcttttctt	
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			gtttgttttc ttttcataat ccacttactc ctttcccttc tactctgcgc tggcttttga	
			cagaggcagt aaattaggcc taatcctcac tcttttcttc ctaacttca tcaaacaaaa	
			aatgaaaaagt ctgtctggac gaaggggagt gagcttgagc ctttgatatac ttgtccccc	
			accttccctg aaactcttga aatccagttg ccattgagta gcaaaagccac gctccccc	
			ggacttggac agagggccca cagggggagt ggtggctgtt ggccaggttt agggcagggg	
			gcatttggcc cctccatgct ataateccagt ggtgccttac atggtgtgtg tgtgtgtgtg	
			tgcgtgtgtg tgtgtgtgtg tgtgtctgga ggcacaggca caaagcattg cttgggttgg	
			tcaaatgtct tgtgtcataa atatatctg atgtttccca gcctttccac aacctctacc	
			ttcccaactca ccttcccag ctacaaaaat ctgtattatc ctcttaagt aaaaactggag	
			ttac	

55	688	Opsin, blue- sensitive	NM_001708	<p>CRGRRRLPPE PCAAARRPALF PSGVPAARSS PAQPRRLCQRL DGASWGVVS</p> <p>ggcatccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaata tctcttcagt A</p> <p>ggggccgtgg gatgggcctc agtaccacat tgcccctgtc tgggcttctt acctccaggc</p> <p>agctttcatg ggcactgtct tccttatagg gtcccactc aatgccatgg tgcgtggtggc</p> <p>cacactgcgc tacaaaaagt tgcggcagcc cctcaactac attctgttca acgtgtcctt</p> <p>cggaggcttc ctctcttgca tcttctctgt ctccctctg ttcgtcgcca gctgtaacgg</p> <p>atacttcgtc ttcggtcgcc atgtttgtgc ttgggagggc ttccctgggca ctgtagcagg</p> <p>tctggttaca ggatgggtcac tggccttctt ggcctttgag cgctacattg tcatctgtaa</p> <p>gcccttcggc aacttcgctt tcagctccaa gcatgcactg acggtgtgccc tggctacctg</p> <p>gaccattggg attggcgtct ccattcccac ctctcttggc tggagccgggt tcatccctga</p> <p>gggctgcag tgttccctgt gccctgactg gtacaccgtg ggcaccaaatt accgcagcga</p> <p>gtccatatcg tggttccctt tcatcttctg ctctattgtg cctctctccc tcatctgctt</p> <p>ctctacact cagctgctga gggccctgaa agctgttgca gctcagcagc aggagtcagc</p> <p>tacgacccag aaggctgaac gggaggtgag cgcgatggtg gttgtgatgg taggatcctt</p> <p>ctgtgtctgc tacgtgccct acgcgccctt cgcgatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcctg tcaccattcc ttcattcttc tccaagagtg cttgcatcta</p> <p>caatcccatc atctactgct tcatgaataa gcagttccaa gcttgcatca tgaagatggt</p> <p>gtgtgggaag gccatgacag atgaatccga cacatgcagc tcccagaaa cagaagtctt</p> <p>tactgtctcg tctacccaag ttggcccaaa ctgaggaccc aatatggcc tgtttgcaac</p> <p>agctagaatt aaattttact t</p>	Homo sapiens
56	688	Opsin, blue- sensitive	NP_001699.1	<p>MRKNSEEEFY LFNKISSVGP WDGPQYHIAP VWAFYLQAAF MGTVFLIGFP LNAMVLVATL P</p> <p>RYKLRQPLN YILNVSVFG FLICFVSFP VFVASCNGYF VFGRHVCALE GFLGTVAGLV</p> <p>TGWSLAFALF ERYIVICKPF GNFRSSKHA LTVVLATWTI GIGVSIPIFFF GWSRFIPEGL</p> <p>QCSGPDWYT VGTKYRSESY TWFLFIFCFI VPLSLICFSY TQLLRALKAV AAQQQESATT</p> <p>QKAREVSRM VVMVGSFCV QACIMKRVCG KAMTDESDTC SSQKTEVSTV SSTQVGN</p> <p>IIYCFMKNQF gagtatctgg atgtcttggga ttttcttccc attctgttct gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact gcatttgaac tgagaagaag</p> <p>aaatattaaa gacacagtct tcagaagaaa tggctcaaa ggcagcctcac tcacctaatac</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata</p> <p>acacaaaataa aggatggagc ggggacaaact ctccaggaat agaagcattg tgtgccatct</p> <p>atattactta tgcgtgtgac atttcagtg gcatccttgg aaatgctatt ctcatcaaa</p> <p>tctttttcaa gacaaaatcc atgcaaacag ttccaaatat tttcatcacc agcctggctt</p> <p>tggagatct tttacttctg taaacttgtg tgcagtgga tgcaactcac taccttgcag</p> <p>aaggatggct gttcgggaaga attggttga agtgctctc tttcatcggg ctcaacttctg</p> <p>tgggtgtgct agtgttcaca ttaacaattc tcagcgctga cagatacaag gcagtttgtga</p> <p>agccacttga gcgacagccc tccaatgcca tctggaagac ttgtgtaaaa gctggctgcg</p> <p>tctggatcgt gtctatgata ttgtctctac ctgaggtctat attttcaaat gtatacactt</p> <p>tctgagatcc caataaaaaat atgacatttg aatcatgtac ctctatcct gtctctaaga</p> <p>agctcttgca agaaatacat tctctgctgt gcttcttagt gttctacatt attccactct</p> <p>ctattatctc tgcctactat tctctgattg ctaggaccct ttacaaaagc acctgaaca</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727		Homo sapiens

58	692	Bombesin Receptor Subtype-3	NP_001718.1	<p> tactactga ggaacaaagc catgcccgtg agcagattga atcccgaag agaattgcca gaacggattt ggtgttggtg gctctgtttg cctctgtctg gttgccaaat cactctctgt acctctacca ttcattcaact tctcaaacct atgtagacc ccttgccatg catttcattt tcaccatttt cctcggggtt ttggctttca gcaattcttg cgtaaaacccc ttgtctctct actggctgag caaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg agcgccctga cctctctgtt gctgacacct cttataccac cttggctgtg atgggaaagg tccccggcac tgggagcata cagatgtctg aaattagttg gacctcgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgctgc ttctctctcc agcgtgtgta tccgactcta agctgtgtgc agg GILGNAIILIK VFFKTKSMQT QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P KVLSFIRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC VWIVSMIFAL PEAIFSNVYT FRDPNKNMTF ESCTSYPSK KLLQEIHSLL CFLVPIIPL SIISVYSLI ARTLYKSTLN IPTEQSHAR KQIESRKRIA RTVLVLVLF ALCWLPNHLH YLYHSFTSQT YVDPSSAMHEI FTIFSRVLAF SNSCVNPFAL YWLSKSFQKH FRAQLFCKKA ERPEPPVADT SLTTLAVMGT VPGTSGSIQMS EISVTSFTGC SVKQAEDRF gctgccacct ccttagaggc acctggcggg gagcctctca acataagaca gtgaccagtc A tggtagacta cagccggcac agccatgaac tacccgctaa cgctgaaat ggacctcgag aacctggagg acctgttctg ggaactggac agattggaca actataacga cactccctg gtgaaaaatc atctctgccc tggcacagag gggccctcctca tggcctcctt caaggccgtg ttcgtgcccg tggcctacag cctcatcttc cctctggcg tgatcggcaa cgtcctgggtg ctggtagatc tggagcggca cggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg cgaacctct cttggtcttc ctctctctgc aaaaactgtga ttgccctgca caaagtcaac gtgggctggg tccctgggac ctctctctgc atgcctgtg accgtacct ggccattgtc ttctactgca gcagcctgct cctggcctgc atgcctgtg tccacatcac ctgtgggacc cacgccgtcc atgcctaccg ccaccgcgc ctctctctca tccacatcac ctgtgggacc atctggctgg tgggttctct ccttgccctg ccagagattc tcttgccaa agtcagccaa ggccatcaca acaactcctt gccacgttg acccttctcc aagagaacca agcagaacg catgcctggt tcacctccg attcctctac catgtggcg gattcctgct gccatgctg gtgatgggt ggtgctacgt gggggtagt cacaggttg gccaggccca gcggcgccct cagcggcaga agcagtcag ggtggccatc ctggtgacaa gcattctctt cctctgctgg tcacctacc acatcgtcat ctctctggac acctggcga ggtgaaggc cgtggacaa acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagt cctgggacctg gccactgct gcctcaacc catgctctac actttcgccg cgtgaagt cgcagtgac ctgtcgcggc tctgacgaa gctgggctgt accggccctg cctccctgtg ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccacgttc taggtcccaag tgtccccctt tattgctgct ttctctggg gcaggcagt atgctggatg ctcttccaa caggagctgg gatcctaagg gctcaccgtg gctaagagt tcttaggagt atctctattt ggggtagcta gaggaacca ccccatctc tagaacatcc ctgccagctc ttctgcccgc cctggggcta ggtggagcc caggagcgg aagcagctc aaaggcacag tgaaggctgt ccttaccat ctgcaccccc ctgggctgag agaacctcac gcacctccca </p>	Homo sapiens
59	729	CXC Chemokine Receptor 5	NM_001716	<p> tactactga ggaacaaagc catgcccgtg agcagattga atcccgaag agaattgcca gaacggattt ggtgttggtg gctctgtttg cctctgtctg gttgccaaat cactctctgt acctctacca ttcattcaact tctcaaacct atgtagacc ccttgccatg catttcattt tcaccatttt cctcggggtt ttggctttca gcaattcttg cgtaaaacccc ttgtctctct actggctgag caaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg agcgccctga cctctctgtt gctgacacct cttataccac cttggctgtg atgggaaagg tccccggcac tgggagcata cagatgtctg aaattagttg gacctcgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgctgc ttctctctcc agcgtgtgta tccgactcta agctgtgtgc agg GILGNAIILIK VFFKTKSMQT QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P KVLSFIRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC VWIVSMIFAL PEAIFSNVYT FRDPNKNMTF ESCTSYPSK KLLQEIHSLL CFLVPIIPL SIISVYSLI ARTLYKSTLN IPTEQSHAR KQIESRKRIA RTVLVLVLF ALCWLPNHLH YLYHSFTSQT YVDPSSAMHEI FTIFSRVLAF SNSCVNPFAL YWLSKSFQKH FRAQLFCKKA ERPEPPVADT SLTTLAVMGT VPGTSGSIQMS EISVTSFTGC SVKQAEDRF gctgccacct ccttagaggc acctggcggg gagcctctca acataagaca gtgaccagtc A tggtagacta cagccggcac agccatgaac tacccgctaa cgctgaaat ggacctcgag aacctggagg acctgttctg ggaactggac agattggaca actataacga cactccctg gtgaaaaatc atctctgccc tggcacagag gggccctcctca tggcctcctt caaggccgtg ttcgtgcccg tggcctacag cctcatcttc cctctggcg tgatcggcaa cgtcctgggtg ctggtagatc tggagcggca cggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg cgaacctct cttggtcttc ctctctctgc aaaaactgtga ttgccctgca caaagtcaac gtgggctggg tccctgggac ctctctctgc atgcctgtg accgtacct ggccattgtc ttctactgca gcagcctgct cctggcctgc atgcctgtg tccacatcac ctgtgggacc cacgccgtcc atgcctaccg ccaccgcgc ctctctctca tccacatcac ctgtgggacc atctggctgg tgggttctct ccttgccctg ccagagattc tcttgccaa agtcagccaa ggccatcaca acaactcctt gccacgttg acccttctcc aagagaacca agcagaacg catgcctggt tcacctccg attcctctac catgtggcg gattcctgct gccatgctg gtgatgggt ggtgctacgt gggggtagt cacaggttg gccaggccca gcggcgccct cagcggcaga agcagtcag ggtggccatc ctggtgacaa gcattctctt cctctgctgg tcacctacc acatcgtcat ctctctggac acctggcga ggtgaaggc cgtggacaa acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagt cctgggacctg gccactgct gcctcaacc catgctctac actttcgccg cgtgaagt cgcagtgac ctgtcgcggc tctgacgaa gctgggctgt accggccctg cctccctgtg ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccacgttc taggtcccaag tgtccccctt tattgctgct ttctctggg gcaggcagt atgctggatg ctcttccaa caggagctgg gatcctaagg gctcaccgtg gctaagagt tcttaggagt atctctattt ggggtagcta gaggaacca ccccatctc tagaacatcc ctgccagctc ttctgcccgc cctggggcta ggtggagcc caggagcgg aagcagctc aaaggcacag tgaaggctgt ccttaccat ctgcaccccc ctgggctgag agaacctcac gcacctccca </p>	Homo sapiens

60	729	CXC Chemokine Receptor 5	NP_001707.1	MNYPLTLEMD IFLLGVIGNV LCKTVIALHK VNFYCSLL SQGHNNNSLP RPQRQKAVRV VVHRLRQAQR PVAITMCEFL GLAHCCLNPM LYTFAGVKFR SESENATSLT TF	LENLEDLFEW LVLVILERHR VNFYCSLL ACIAVDRYLA IVHAVHAYRH ETHAWFTSRF CWSPYHIVIF LDTLARLKAV DNTCKLNGSL GCTGPASLCQ LFPSWRRSSL	TEGPLMASFK VFILPFAVAE RRLLSIHITC LYHVAGFLLP MLVMGWCYVG DNTCKLNGSL LFPSWRRSSL	Homo sapiens		
61	735	C-C Chemokine Receptor 1	NM_001295	ggcacgagcc ggatggaaac atgcaactcc tgtactccct tgcaatacaa acctgctctt tttttggtga agatcttttt ttgcocttgc tggccatctt accacacctg	cagaaacaaa tccaaacacc gtgccagaag ggatattgtc gaggctaaaa cctgttcacg tgccatgtgt catcatcctg ggcacggacc ggcttccatg cagcctttcac	gacttcacgg acagaggact gtgaacgaga atggccctgg aacatgacca cttcccttct aagatccctc ctgacgattg gtcacttttg ccaggcttat tttcctcacg	ttggaaccag cacagagttt ggcccaactg cctggtggtc cctgaacctg caagttagag ttacacaggc ggccatcgct cagcatcatc gacccaatgg aagctctacg	agagaagccg gactatgggg ctgccccctc ctggctcctg gccatttctg gatgactggg ttgtacacg cagccctgtg atgtggcccc gaatttcactc ctgttttcagg	Homo sapiens

62	735	C-C Chemokine Receptor 1	NP_001286.1	<p>ctctgaaact gaacctctttt gggctgggtat tgccttttgtt ggtcatgatac atctgctaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt tgatttttgt catcatgatac atcttttttc tcttttgac ccctacaat ttgactatac ttatttctgt ttccaagac ttctgttca cccatgagtg tgagcagagc agacatttgg acctggctgt gcaagtgcg gagtgatcg cctacacgca ctgctgtgtc aaccagtgga tctacgcctt cgttggtgag aggttcgga agtacctgag gcagttgttc cacaggcgtg tggctgtgca cctggttaaa tggctcccc tctctccgt ggacaggctg gagagggtca gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagaccat aggaggccaa cccaaataa gcaggcgtga cctgccaggc acactgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tgggatatag agggaatgta atggtggcct gggcctcttg aggtctctgg ggcctcagtc tttccatga acttctccc tggtagaaag aagatgaatg agcaaaacca aatattccag agactgggac taagtgtacc agagaagggc ttggactcaa gcaagatttc agatttgtga ccattagcat ttgtcaacaa agtaccacc ttccactat tggctgcaca aaccaattaa acccagtagt ggtgactgtg ggtccattc aaagtgagct cctaaagccat gggagacact gatgtatgag gaatttctgt tcttccatca cctccccccc cccgccacc tccactgcc aagaacttgg aaatagtgtat ttccacagtg actccactct gagtcccaga gccaatcagt agccagcctc tgctccccct tcactcccac cgcaggattt gggctcttgg aatctgggg aacatagaac tcatgacgga agatttgaga cctaacgaga aatagaaatg ggggaactac tgctggcagt ggaactaaga aagcccttag gaagaatttt tatatccact aaaaataaac aattcaggga gtgggctaag caggggccat atgaataaca tgggtgtgctt cttaaatag cctaaaggg gagggactca cacttccat ttacccttct taatggcctt attgcagcga ttaataacag tttcaagtgt ggtgatatgt ttcccttct tttgttctt catctaaagcc tctgtgtttt gcaaaaggaa gcagggttgg ttcccttct ccatcttga aaaaaaaa aaaaa atgggtcaga gttccgactg ccatcttga ctgtcagca aaaaaaaa aaaaa METPNTTETY DTTTEFDYD ATPCQKNER AFGAQLLPL YSLVFVIGLV GNILVVLV P QYKRLKNMYS IYLLNLAISD LFLFTLPFW IDYKLDKDWV FGDAMCKILS GFYTYGLYSE Homo sapiens</p>
63	737	C-C Chemokine Receptor 3	NM_001837	<p>IFFIILLTID RYLAIVHAFV ALRARTVTFG VITSIIWAL AILASMPGLY FSKTQWETH HTCSLHPHE SLREWKLFOA LKLNLFGLVL PLVMIICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLT HECEQSRHLD LAVQTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRRV AVHLVKWLPF LSVDRLEVS STSPSTGEHE LSAGE tttttcttct tctatcacag ggagaagtga aatgacaacc tcactagata cagttgagac A ctttgggtacc acatccctact atgatgacgt gggcctgctc tgtgaaaaag ctgataccag agcactgatg gccagtttg tgcctccgtg tgcctccctg gtgttccactg tgggcctctt gggcaatgtg gtggtgtgta tgatcctcat aaaaacaggg aggtccgaa ttatgaccaa catctacctg ctcaacctgg ccatttcgga cctgctcttc ctcgtcaccc ttccattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtgta agtccctctc agggttttat cacacaggct tgtacagcga gacttttttc ataactctgc tgacaatcga caggtacctg gccattgtcc atgtgtgtgt tgcctctcga gccgggactg tcacttttgg tgtcatcacc agcatcgtca cctggggcct ggcagtgcta gcagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactcttgc agtctctctt acccagagga</p>

Homo sapiens

Homo sapiens

NP_001828.1

C-C Chemokine Receptor 3

64 737

tacagtatat agctggaggc atttccacac tctgctacac aggaatcatc aaaaacgctgc tgaggtgccc
ccctctgctc gttatggcca tctgctacac aggaatcatc aaaaacgctgc tgaggtgccc
cagtaaaaaa aagtacaagg ccattccggt cttttttgtc atcatggcgg tgtttttcat
tttctggaca cctacaatg tggctatcct tctctcttcc tatcaatcca tcttatttgg
aaatgactgt gagcggagca agcatctgga cctggtcacag aggtgatcgc
ctactccacac tctgcatga acccgtgat ctacgcttt ttggagaga ggttccgga
gtacctgcgc cacttcttcc acaggcactt gctcatgcac ctgggcagat acatcccatt
ccttccctagt gagaagctgg aaagaaccag ctctgtctct ccattccacag cagagccgga
actctctatt gtgttttagg tcagatgcag aaaattgcct aaagaggaa gaccaaggag
atgaagcaaa cacattaagc ctccacact cacctctaaa acagtccctt aaacttccag

NP_001828.1

C-C Chemokine Receptor 3

64 737

NM_005508

C-C Chemokine Receptor 4

65 738

cggggggttt gatctcttcc ccttcttctt ccttcttctt ccttcttctt ccttcttctt
tctctcattt ccttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
agaaaaagcaa gctgcttctg gttgggcccc gactgcctt gaggagcctg tagagttaaa
aatgaaccc cagcgatata gcagatacca cctcgatga aagcatatac agcaattact
atctgtatga agtatcccc agccttgca ccaagaagg catcaaggca tttggggagc
tcttcttctg cccactgtat tcttgggtt ttgtatttgg tctgcttggga aattctgtgg
tggttctggt cctgttcaaa tacaagcggc tcaggtccat gactgatgtg tacctgctca
accttgccat ctcggtatctg ctcttctgt ttttcttctt ttttggggc tactatgcag
cagaccagtg ggttttttggg ctaggctctg gcaagatgat tcttgggatg tacttgggtg
gctttttacag tggcataatc tttgtcatgc tcagatgcat tgatagatac ctggcgatag
tgcacgcggt gtttcttctg agggcaagg ccttgactta tgggggtcatc accagtcttg
ctacatggtc agtggctgtg ttcgctctcc tcttggctt tctgttcagc acttgttata
ctgagcgcaa ccatacctac tgcaaaacca agtactctct caactccacg acgtggaagg
ttctcagctc cctggaatc acattctctg gattggtgat ccccttaggg atcatgctgt
tttgctactc catgatcatc agaccttgc agcatgttaa aaatgagaag aagaacaagg
cgttgaagat gatcttctg ggtgtgttc tcttcttctg gttctggaca ccttacaaca
tagtgcctct cctagagacc ctggtggagc tagaagctcc taggaactgc accttgaaa
gatacttggga ctatgccatc caggccacag aaactctggc ttttcttctc tgcctctta
atcccatcat ctacttttct ctgggggaga aattctgcaa gtacatccta cagctcttca
aaacctgcag gggccttctt gtgctctgct taccatgga gctcctcaa atttactctg
ctgacacccc cagctcatct gaaatgcaga ccacatgga catgatctct catgatgctc
tgtaggaaaa atgaaatggt gaaatgcaga tccaatgaac ttttccacat tcagagctta
ctttaaaaat ggtattttta ggtaaagag ccttgagcca gtgtcaggag gaaggcttac
acctacagt gaaagacagc ttctctctt gcaggcagct ttttctctcc cactagacaa

NM_005508

C-C Chemokine Receptor 4

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C-C
Chemokine
Receptor 4

gtccagccctg gcaaggggttc acctggggctg aggcatacctt cctcacacca ggcttgccctg
caggcatgag tcagctctgat gagaactctg agcagtgctt gaatgaagtt gtaggtaata
ttgcaaggca aagactattc ccttctaacc tgaactgatg ggtttctcca gagggaaattg
cagagtactg ctgcatggag taaatcctg ccttttctg tggcaaatgg gcccccg
NMPTDIADTT LDESIYSNYI LYESIPKPT KEGIKAFGEL FLPLYSLVF KMSLLGNSVV P

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C-C
Chemokine
Receptor 4

VLVLFKYKRL RSMTDVYLLN LAISDLLFVE SLPFWGYAA DQWVFLGLC KMSLWMLVG
FYSGIFFVML MSIDRYLAIV HAVFSRLRAT LTYGVITSLA TWSVAVFASL PGFLFSTCYT
ERNHTYCKTK YSLNSTWKV LSSLEINILG LVIPLGIMLF CYSMIIRTLO HCKNEKNKA
VKMIFAVVVL FLGFWTPYNI VLFLETLVEL EVLQDCTFER YLDYAIQATE TLAFFVHCLN
PIIYFFLGEK FRKYILQLFK TCRGLFVLQ YCGLLIQIYA DTPSSSYTQS TMDHDLHDAL
gtgagacagg ggtagtgcga ggcggggcac agccttctctg tgttggttta cgcgccagag A
agcgtcatgg acctggggaa accaatgaaa agcgtgctgg tgggtgctct ccttgctcatt
ttccaggat ccttggttca agatgaggtc acggacgatt acatcggaga caacaccaca
gtggactaca ctttggttga gtctttgtgc tccaaagaag acgtgcggaa ctttaaagcc
tggttccctc ctatcatgta ctccatcatt tgtttctggt gcctactggg caatgggctg
gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctacctgtc
aaactggcgg tggcagacat cctcttctc ctgaccttc ccttctgggc ctacagcgcg
gccaagtccct gggctctcgg tgtccacttt tgaagctca tctttgacct ctacaagatg
agcttcttca gtggcatgct cctacttctt tgcatcagca ttgaccgcta cgtggccatc
gtccaggctg tctcagctca cgcgccacct gcccgcgtcc ttctcatcag caagctgtcc
tgtgtgggca tctggatact agccacagt ctctccatcc cagagctcct gtacagtgc
ctccagagga gcagcagtg gcaagcgtg cgtgctctc tcatacaga gcattgtggag
gcctttatca ccattccagg gcccagatg gtgactgggt ttctggtccc cctgctggcc
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aacaaggcca tcaaggtgat catcgtctg tctgtggtct tcatagtctt ccagctgccc
tacaatgggg tggctcctgg ccagacggtg gccaaactta acataccag tagcacctgt
gagctcagta agcaactcaa catcgctac gactcacct acagcctggc ctgcgtccgc
tgcctgctca acccttctt gtacgcttc atcggcgtca agttccgcaa cgtactcttc
aagctcttca aggacctggg ctgcctcag caggagcag tccggcagtg gtcttctctg
cggcacatcc ggcgctcctc catgagtgtg gagggcaga ccaccacac cttctcccca
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ctccctcag agtgcaagcc ctgctccaga agttagcttc accccaatcc cagctacctc
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agaggctatt gtcccctaaa ccaaaaaactg aaagtgaag tccagaaact gttccacct
gctggagtga aggggcccaag gaggtgagt gcaaggggctg tgggagtggc ctgaagagtc
ctctgaatga acctctggc ctcccacaga ctcaaatgct cagaccagct cttccgaaaa
cggagcctta tctccaagac cagagatagt ggggagactt cttgggttgg tgaagaaaaa
cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tcttactgt
cctccaagcc agcgggaatg gcagctgcca cgcgcctca aaagcacact catccctca
cttgccgctg cgcctccca ggctctcaac aggggagagt gtgggtgttc ctgcaggcca

Homo
sapiens

NM_001838

741

67

C-C
Chemokine
Receptor 7

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p>ggccagctgc ctccgctga tcaaagccac actctgggct ccagagtggg gatgacatgc actcagctct tggctccact gggatggag gagaggacaa gggaaatgtc agggcgggg agggtagacag tggcgcccca aggccacgag cttgttcttt gttctttgtc acagggactg aaaacctctc ctcatgttct gtttcgatt cgttaagaga gcaacatttt acccacacac agataaaagt ttcccttgag gaaacaaag ctttaaaag MDLGKPMKSV LVVALLVIFQ VCLCQDEVTD DYIGDNTTVD YTLFESLCSK KDVRNFKAWF P LPIMYSIIIF VGLLGNLWV LTYIYFKRLK TMTDTYLLN AVADILFLT LPFWAYSAAK sapiens SWVFGVHFC LIFALYKMSF FSGMLLLLCI SIDRYVAIVQ AVSAHRHRAR VLLISKLSKV GIWILATVLS IPELLYSDLQ RSSSEQMRC SLITEHVEAF ITIQVQMVI GFLVPLLLAMS FCYLVIIRTL LQARNFERNK AIKVIIVVV VFIVFQLPYN GVVLQTVAN FNITSSSTCEL SKQLNIAYDV TYSLACVRCC VNPFLYAFIG VKFRNDLFKL FKDLGCLSQE QLRQWSSCRH IRSSMSVEA ETTTTFSP</p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p>TTTAAATTTA AAACTTTAT TGAATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAATGATGT CTGACCTCCT TATATATGTA AAAAATATAC CTTACAGATC CGTCAGTAAG CTGGAAGAAG TGGATGTTGA AGTTTTTAAC ATCGATGATG GGTCTCCAGT TGTTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCAAAGGTGA TCCTAATAGT GAAGACATTA ACATGTCAGA AAAAGTGCCT ACAGATTATA TGGTGAATAT ACGTGATGGG CTTCTTGAAG GACTAGAGCA GTGTGTATTC AAACAGAAC ACAAATGATC GTCAGTTTAT TGCCAAATAT GCTGTGCGCA ACACTTAGAA CACAATGATC GGAGACACAG TTGTGCGTGC A CTGGCACAAAC CTCCAGCCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAAGA ATATTTTAAC ATCATTATG AGGCTCCAGT TATTCATTCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCCTATAA ATGACACAGT GAAA</p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaaac aaaggctgtc actaagggtcc cgctgccttg atggattata cacttgacct cagtgtagaca acagtgaccg actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagtgtct ccttgctgtc ttttattgcc tctgtttgt attcagtctt ctgggaaaca gcctggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgcttt ttgtctctc ctccccctt cagacctact atctgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgctt ggcctttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgggac aggtacctgg ctgttgtcca tgccgtgtat gcctaaagg tgaggacgat caggatgggc acaacgtgtg tggcctctga atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccaacttc aaaatgaaca ttttaggctt gtgatccca ttcacctatc ttatgttctg ctacattaaa</p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaaac aaaggctgtc actaagggtcc cgctgccttg atggattata cacttgacct cagtgtagaca acagtgaccg actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagtgtct ccttgctgtc ttttattgcc tctgtttgt attcagtctt ctgggaaaca gcctggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgcttt ttgtctctc ctccccctt cagacctact atctgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgctt ggcctttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgggac aggtacctgg ctgttgtcca tgccgtgtat gcctaaagg tgaggacgat caggatgggc acaacgtgtg tggcctctga atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccaacttc aaaatgaaca ttttaggctt gtgatccca ttcacctatc ttatgttctg ctacattaaa</p>	Homo sapiens

72	742	C-C Chemokine Receptor 8	NP_005192.1	<p>atcctgcacc agctgaagag gtgtcaaaac cacacaaga ccaaggccat caggttggtg ctcattgtgg tcattgcac tttacttttc tgggtcccat tcaacgtgggt tcttttcctc acttccttgc acagtatgca catcttggat ggatgtagca taagccaaca gctgacttat gccacccatg tcacagaaat catttccttt actcactgct gtgtgaaccc tgttatctat gcttttgggt gggagaagt caagaaacac ctctcagaaa tattcagaa agttgcagc caaatcttca actacctagg aagacaaatg cctaggaga gctgtgaaaa gtcacatcc tgccagcagc actcctccc ttctccagc gttagctaca ttttggagg atcaatgaag actaaatata aaaaacattt tcttgaatgg catgctagta gcagtggagca aggtgtggg tgtgaagggt ttccaaaaa agttcagcat gaaggatgcc atatatgttg ttgccaacac ttaaacaca atgactggag acatagtgtg gcatgctgg cacacatca agcctgtgat tgtgtttatt gatgatgttg acaagtgtg aactttaag gattctgtat gccaagtga aaaaaagat gctgacctc ctcatatgc aaaaatatac ctccagagac gtccagtagg ctggaagaag tggatatgga agtttgaca tcaatgatga ggctccagt gtctatgcat tgactgatgg tgaatgggt ggaagtattc tgaatcaagg tgattgtgat tatagtaca atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaaat ttgacaggct tatggaagga ctacagcagc acgattcat aacagaacaa gaaattatct cagcttataa aatcaaacag agacttctag acaaaaacca ttgtgatga ggcagatgcc tctagaagag acgtttaaaa gccatcaaac acaatgcctc atcttccctg gaggaccac ttcctgatcc ctcaactgtg tctgatgttt ctctcatgt agaaaaataa aaataaaaaat aaaaaatat atattggat gtaactacag gaaaaataa aaaaatatat agtggacagt aacctttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgattg ttgttattaa cagctgatac aggtattctg ctgatgctac tgctgcttag ttaccatgaa caggtttttt cactattaat ggtgcgtcat attttttact ttttaagtact tacgtgtgag taagtgaag aaaaatgattg ctatcagta gtatcaatga tttactcaat atctgaatca ccttgattca gaaccattc agctgtttca ccatcagatga atgaataaca gcctcattga tgtcaaaaaa tcaaatatcc acttctttca gctactgta gactctggaa gtatactttt tgcatatgta aggaagtcag attttttttt</p>	Homo sapiens
73	752	CXC Chemokine Receptor 3	NM_001504	<p>VVCKKLRISIT DVYLLNLALS FSSPCDAELI QTNCKLLAV FYCLLFVPSL LGNSLVILVL P MFFITLMSVD RYLAVVHAVY ALKVRTIRMG TTICLAVALWT AIMATPLLV FYQVASEDGV LQCYSFYNQO TLKWKIFTNF KMNILGLLIP FTIFMFCYIK ILHQLKRCQN HNKTKAIRLV LIVVIASLLF WPFENVVLFL TSLHSMHILD GCSISQQLTY ATHVTEIISF THCCWNPVIY AFVGEKFKKH LSEIFQKSCS QIFNYLGRQM PRESCEKSSS CQQHSSRSSS VDYIL</p>	Homo sapiens

74	CXC Chemokine Receptor 3	752	NP_001495.1	<p> gagccctcct gctggcctgc atcagctttg accgctacct gaacatagtt catgccaccc agctctaccg ccggggggccc ccggcccgcc tgacctcac ctgcctggct gtctgggggc tctgcctgct ttctgcctc ccagacttca tcttctgtc ggcaccacc gacgagcgcc tcaacgccac ccaactgcaa tacaacttc cacagtggtg ccgacggct ctgcgggtgc tgacgtggtt gctggcttt ctgctgccc ggcctactgc tatgccaca tccgtgccc gctgctggtt tccagggcc agcgccct gcgggccatg cggctggtgg tgggtgctgt ggtggcctt gccctctgct ggaccccta tcaactggtg gtgctggtgg acatcctcat ggacctgggc gctttggccc gcaactgtgg ccgagaaagc aggttagacg tggccaaagtc ggtcacctca ggcctgggct acatgcactg ctgctcctac ccgctgctct atgcctttgt aggggtcaag ttccgggagc ggatgtgat gctgctcttg cgcctgggct gcccacaaca gagagggtc gagaggcagc catcgtcttc ccgccgggat tcatcctggt ctgagacctc agaggcctcc tactcgggct tctgagggcg gaatccgggc tccccttgcg ccacagctct gactccccg cattccaggc tctccctcc ctctgcccgc tctggctctc cccaatatcc tgcctccccg gactcactgg cagccccagc accaccagggt tccccggaa gccacctcc cagctctgag gactgcacca ttgctgtccc ttagctgcca agccccatcc tgccggccga ggtgctgcc tggagcccca ctgcccttct cattggaaa ctaaaacttc atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctcagctca gcagtactg tggccatggt cccaagacc tctatattg ctctttatt ttatgtcta aaatcctgct taaaacttt caataaaca gatcgtcagg acaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa NVLEVSDHQV LNDAEVAALL ENFSSSYDYG ENESDSCATS PPCQDFSLN FDRAFLPALY P SLLFLGLLG NGAVRAVLLS RRTALSTDT FLHLHIAVDT LVLTLPLWA VDAAVQWVFG SGLCKVAGAL ENINFYAGAL LLACISFDY LNIVHATQLY RRGPPARVTL TCLAVWGLCL LFALPDFIFL SAHDERLNA THCQYNFQV GRTALRVQL VAGFLPLLV MAYCYAHILA VLLVSRGQRR LRAMLVVV VVAFALCWTP YHLVVLVDIL MDLGALARNC GRESRVDVAK SVTSGLGYMH CCLNPLLYAF VGVKFRERMW MLLRLGCPN QRGLOQPSS SRRDSSWSET SEASYSGL </p>	Homo sapiens
75	CXC Chemokine Receptor 4	753	NM_003467	<p> gtttgttggc tgcggcagca ggtagcaaa ggtagccgag ggcctgagtg ctccagtagc A caccgcatct ggagaaaccag cggttaccat ggaggggagc agtatataca cttcagataa ctacaccgag gaattgggct caggggacta tgactccatg aaggaacctt gttcccgta agaaaatgct aatttcaata aaatcttctt gccaccatc tactccatca tcttcttaac tggcattgtg ggcaatggat tggctcatctt ggtcatgggt taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgtc agtggccgac ctcccttttg tcatcacgct tcccttctgg gcagttgatg ccgtggcaaa ctggtacttt gggaacttcc tatgcaaggc agtccatgtc atctacacag tcaacctcta cagcagtgct ctcactctgg cttcatcag tctggaccgc tacctggcca tctgccacgc caccacacagt cagaggccaa ggaagctgtt ggctgaaaag gtggtctatg ttggcgtctg gatccctgcc ctccctgtga ctattccccg cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gttctaccc caatgacttg tgggtggttg tgttccagtt tcagcacatc atggttgccc ttatcctgcc tggatattgc atcctgtctt gctattgcat tatcatctcc aagctgtcac actccaaggc ccaccagaag cgaaggccc tcaagaccac agtcatcctc atcctggctt tcttcgctg </p>	Homo sapiens

[illegible]

755	NP_004045.1	Complement Component 3a Receptor 1	agggggagacc caggagacca gaacatgaac tccttcaatt ataccacccc tgattatggg A	Homo sapiens
756			cactatgatg acaaggatac cctggacctc aacacccctg tggataaaac ttctaacacg	
757			ctgcgtgttc cagacatactt ggccttggtc atctttgcag tcgtcttctt ggtggagatg	
758			ctgggcaatg cactggtggt ctgggtgacg gcattcgagg ccaagcggac catcaatgcc	
759			atctggttcc tcaacttggc ggtagccgac ttctctctct ccttggcgct gcccatcttg	
760			ttcacgtcca ttgtacagca tcaccactgg ccccttggcg gggccgcctg cagcatcctg	
761			ccctccctca tctgctcaa catgtacgcc agcatcctgc tcttggccac catcagcgcc	
762			gaccgcttcc tgctggtggt taaacccatc tggtgccaga acttcgagg ggcgggcttg	
763			gcctggatcg cctgtgccgt ggcttggggt ttagccctgc tgctgacct accctccttc	
764			ctgtaccggg tggtcgggga ggagtacttt gcacaaaagg tgttgttgg cgtggactac	
765			agccacgaca aacggcggga gcgagccgtg gccatcgctc ggttggctct ggccttccctg	
766			tggcctctac tcacgctcac gatttgttac acttctatcc tgctcgggac gtggagccgc	
767			agggccacgc ggtccaccaa gacactcaag gtggtgggtg cagtgggtggc cagtttcttt	
768			atcttctggt tgccctacca ggtgacgggg ataattgatg ccttctgga gccatcgtea	
769			ccacacttcc tgctgctgaa taagctggac tcctgtgtg tctccttgc ctacatcaac	
770			tgctgcatca acccatcat ctacgtgggt gcggccagg gcttcaggg ccgactcgg	
771			aaatccctcc ccagctcct ccggaacgtg ttgactgaag agtccgtggt tagggagagc	
772			aagtcaattca cgcgctccac agtggaacct atggcccca agaccaggc agtgtaggcg	
773			acagctcat gggccactgt ggcccgatgt ccccttctct cccggccatt ctccctcttg	
774			ttttcacttc actttctgtg ggatgggtgtt acctagcta actaactctc ctccatgttg	
775			cctgtcttcc ccagacttgt cctctctttt ccagcgggac tcttctcat ctctctcatt	
776			tgcaaggatga acacttctct ctagggagca ccttccacc cccaccccc cccacacac	
777			catctttcca tcccaggctt ttgaaaaaca aacagaaaac cgtgtatctg ggatatcttc	
778			atatggcaat aggtgtgaac agggaaactca gaatacacag aagttagaaag attctcgctt	
779			aaaaaaatgt atttatttta tggcaagtgt gaaaatatgt aactggaatc tcaaaagttc	
780			tttgggacaa aacagaagtc catggagtta tctaagctct tgtaagttag ttaattttaa	
781			aaagaaaatt aggtgagag cagtggctca cgcctgtaat cccagaactt tgggaggcta	
782			aggtgggtgg atcacctgag gtcaagagtt ccagaccagg ctgggcagca tggtgaaacc	

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p>ccgtctgtac taaaaataca aaaaattaac tgggcatggt agtgggtgccc tgtaatccca gctacttggg aggtgaggt gggagaattg ctggaacctt ggaggtggag gttgtggtga gccatgatcg caccactgca ctctagcctg ggtgaccgag ggaggctctg tctcaaaagc aaagcaaaaa caaaacaaa aacacctaaa aaacctgacg tttgtttgt acttgtttt taaattatgc tttctatttt gagatcatg caaacctaac acaattgtaa gtaattgatac agagggatct tgtgtacctt tcaccagcc tcccccaatg gcaacatctt gcaaaactac aatgtagtct cataaccagg atattgacat tgatacagtg aagatacagg acattctcat caccacagg atccccagga tgcccacttc cctccacccc cacaccccag ccggtgtccct aacccctggc aaccaggaat ccactctcca tttctataat gttgtcatct caagaatggt attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaaa gtatacatga ctttaatgag gaaaaataaa atgaatattg aaaaaaaaaa ctttagag</p> <p>MNSFNYYTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVVFLV GVLGNALVWV P VTAFEAKRIT NAIWFNLAV ADFLSCLALP ILFTSIVQHH HWPFGAACS ILPSLILNM YASILLLATI SADRELLVEK PIWCQNFRA GLAWIACAVA WGLALLLTIP SFLYRVVREE YFPPKVLGV DYSHDKRRER AVAIVRLVLG FLWPLLTITI CYTFILLRTW SRRATRSTKT LKWVAVAVAS FFIFWLPYQV TGIMSFLEP SSPTFLLLNK LDSLCVSFAY INCCINPIIY VWAGQGFQGR LRKSLPSLLR NVLTEESVVR ESKSFRSTV DTMQKQTQAV</p>	Homo sapiens
81	767	Calcitonin Receptor- like Receptor	NM_005795	<p>gcacgaggga acaactcttc tctctscagc agagagtgtc acctctgct ttaggacct A caagctctgc taactgaatc tcactctaatt tgcaggatca cattgcaaaag ctttcaactc ttcccacctt gcttggtggt aaatctcttc tgcggaaatc cagaaagtaa agttccatcc tgagaatatt tcacaagaa tttccttaag agctggactg ggtcttgacc cctggaattt aagaaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtctgga gacaattgtg catatcgtct aataataaaa accatacta gcctatagaa acaaatattt gaataataaa aaccatact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaact actacaactt gacaagactg ctgcaaaact caatgggtca ccacaactg acaaggttgc tataaaacaa gattgctaca acttctagtt tatgttatag agcatatttc atttgggctt aatgatggag aaaaagtga cctgtattt tctggttctc ttgcttttt ttatgattct tgttacagca gaattagaag agagtccctga ggactcaatt cagtgggag ttactagaaa taaaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactgca acagaacctg ggatggatgg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agctctgccc tgattacttt caggactttg atccatcaga aaaagttaca agatctgtg accaagatgg aaactgggtt agacatccag caagcaacag aacatggaca aattataccc agtgaatgt taacacccac gagaaagtga agactgcaact aaattgttt tacctgacca taattggaca cggattgtct atgcatcac tgcttatctc gcttggcata ttcttttatt tcaagagcct aagttgccc aaaggattacct tacacaaaaa tctgttcttc tcatttgttt gtaactctgt tgtaacaatc attcacctca ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgttagtggc aaagtgtccc agttcatcca tctttacctg atgggctgta attacttttg gatgctctgt gaaggcattt acctacacac actcatgttg gtggccgtgt ttgcagagaa gcaacattta atgtgggatt attttcttgg ctggggattt ccaactgattc ctgcttgatt acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataccca tctcctctac attatccatg</p>	Homo sapiens

Accession	Gene	Protein	Species
82	Calcitonin Receptor-like Receptor	NP_005786.1	Homo sapiens
767	Calcitonin Receptor-like Receptor	NP_005786.1	Homo sapiens
83	Cannabinoid Receptor 1	NM_001840	Homo sapiens
832	Cannabinoid Receptor 1	NM_001840	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p>ccagcagac cagtgagaa ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatgtcct gaacccagc cagcagctgg ccattgcagt cctgtccctc acgtgggca ccttcacggt cctggagaa ctcctggtgc tgtgcgtcat cctccactcc cgcagcctcc gctgcaggcc ttcctaccac ttcacggca gctggcggt ggcagacctc cgtgggagtg tcatcttctg ctacagcttc attgacttcc acgtgttcca cgcctcctg ggcagcctgt tcttcacagc caaaactgggt ggggtcacgg cctccttcac cctggcctat aagaggattg tcaccaggcc catcgacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgttt gcctgatgtg gaccatagcc atgtgatcg ccgtgctgcc tctcctgggc tggaaactgcg agaaactgca atctgtttgc tcagacattt tcccacacat tgatgaaacc tacctgatgt tctggatcgg ggtcaccagg gtactgcttc tgttcacgt gtatgcgtac atgtatattc tctggaaggc tcacagccac gcgtccgca tgattcagcg tggcacccag aagagcatca tcatccacac gtctgaggat gggaaggtag aggtgaccg gccagaccac gccgcattg acattaggtt agccagacc ctggtcctga tctggtggt gttgatcatc tctggtggcc cctgcttgc aatcatggtg tatgatgtct ttgggaagt gaacaagctc attaagacgg tgtttgcatt ctgcagtatg cctgctcctg tgaactccac cgtgaacccc atcatctatg cctgaggag taaggacctg cgacacgctt tccggagcat gttccctct tgtgaaggca ctgagcagc tctggataac agcatggggg actcggactg cctgcacaaa cagcaaaa atgcagccag tgttcacagg gccgagaaa gctgcatcaa gagcacggtc aagattgcca agttaacct gtctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgatgctcc ctggcagcac aggaagaaa tttttttt taagctcaaa atctagaaga gtctattgtc tcttggtta tttttttt actttaccat gctcaatgaa aagtgattg ccacatgtca cttattgtc tagtttccgt ttgggctaatt ctccgggggt tcgtaggaaa ccttt</p>	Homo sapiens
85	Cannabinoid Receptor 2	NM_001841	<p>MLSLDGLAD TTFRTITDLY LVGSNDIQY EDIKGDMASK LGYFPQKEPL TSFRGSPFQE P KMTAGDNPQL VPADQVNITE FYNKLSSEK ENEENIQCGE NFMDIECFMV LNPSQQLAIA VLSLTGTFT VLENLLVLCV ILHSRSLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHF HRKDSRNVEL FKLGGVTASF TASVGSLEFL IDRYISIRH PLAYKRIVTR PKAWAFCLM WTIAIVIAVL PLLGMNCEKL QSVCSDFPH IDETVLMFWI GVTSVLLLFV VYAYMYILWK AHSHAVRMIO RGTQKSIH TSEDGKVQVT RPDQARMDIR LAKTLVLILV VLIICWGPLL AIMVYDVEGK MNKLIKTVFA FCSMLCLLNS TVNPIIYALR SKDLRHAFRS MFPSCEGTAQ PLDMSMGDSD CLHKHANNAA SVHRAEESI KSTVKIAKVT MSVSTDSAE AL</p> <p>caggtcctgg gagaggacag aaacaaactg gactcctcag cccccggcag ctccacagtgc A ccagccacc ccaacacac ccaagcctt ctagacaagc tcatggaat ctgaaggcc caccatgg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaacccta tgaaggatta catgatcctg agtgggtccc agaagacagc tgttgcgtg ttgtgactc tctggggcct gctaaagtgc ctggagaacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatcctgt tcatggcag ctggctggg gtgacttcc tggccagtgt ggtctttgca tgcagctttg tgaattcca tgttttccat ggtgtggatt ccaaggctgt cttcctgctg aagattggca gcgtgactat gaccttcaca gcctctgtgg tagcctcct gctgaccgc attgaccgat acctctgctt gcgctatcca</p>	Homo sapiens

[illegible]

88	922	Leukocyte Antigen CD97	NP_001775.1	<p> caccatacatt tccctctcga acacagagct gaccctgatg atccaggagc ggggggacaa gaagtcact atgggtcaga gcagcgacg catgaagctg aattgggctg tggcagctgg agccaggat ccaggccccc cctggcgagg catcctctcc atccagaaca tgacgacatt gctggccaat gcctccttga acctgcattc caagaagcaa gcgaactgg agagatatata tgaagcagc atccgtggtg tccaactcag accctctctt gccgtcaact ccacttttct gagccacaac aacaccaagg aactcaactc cccatctctt ttcgcttctt ccaaccttga gtcctccgat ggggagcgcg gaagagacc tccctgcaa gactgtatgc ctggggccacg gcaggagctg ctctgtgctt tctgggaagag tgacagcgac aggggagggc actggggcac cgaggtctgc caggtgcttg gcagcaagaa cggcagcacc acctgccaat gcagccact gagcagcttt acgatactta tggctcatta tgacgtggag gactgggaagc tgacctgat caccagggtg ggaactggcg tgtcactctt ctgcctgctg ctgtgcatcc tcaatttctt gctggtgctg cccatccagg gctcgcgcac caccatacac ctgcacctct gcactgctt cttctgtggc tccaccatct tctggcgcg catcgagaac gaaggcgcc aggtggggct gcgtgcccgc ctggtggcg gctgctgca ctactgttct ctggcgctt tctgctggat gagcctcgaa ggctggagc tctactttct tgtgtgctg gtgttccaa gccaaggcct gagtacgcgc tggctctgctc tgatcggtta tggcgtgccc ctgtcatcg tggcgctc ggctgccatc tacagcaagg gctacggcg cccagatac tgcgtgttg actttgagca gggttctctc tggagcttct tgggacctgt gacctctatc atttgtgca atgtgtcat tttctgtact accgtctgga agctcactca gaagtcttct gaaatcaatc cagacatgaa gaaattaaag aaggcgaggg cgctgacctc cactggccatc gcgcagctct tctgttggg ctgcacctgg gtctttggcc tgttcatctt cgacgatcgg agcttgggtgc tgacctatgt gtttaccatc ctcaactgctc tgcaggcgcg ctctctctac ctgtgcatc gcctgctcaa caagaagggtt cgggaagaat accggaagt ggcctgccta gtgtgtggg ggagcaagta ctcagaattc acctccacca cgtctggcac tggccacaat cagaccggg cctcagggc atcagagtcc ggcataatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagcttly tacacgaaga ccattccatc tcccttgctc caccactcta ctccctccac cctccctccc tgatccccgtg tgccaccagg agggagtggc agctatagtc tggcaccaaa gtccaggaca cccagtgggg tggagtcgga gccactggtc ctgctgctgg ctgcctctct gtccacctt gtgacctagg gtggggacag gggctggccc agggctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcggga cagactaagg gcgcttctcc cactctggac tttctctctc atgtctttgc tgcagaactg aagagactag gcgctggggc tcagcttccc tcttaagcta agactgatgt cagagcccc atggcgaggc cccttggggc cactgcctga ggctcaggt acagaggcct gccctgctg gccgggacag aggttctcac tgttgaag gtgtgagacg ttgtgtaatg tgtttttatc tgttaaaatt tttcagtgtt gacacttaaa attaaacaca tgcatacaga aaaaaaaaaa a MGGRVFLAFC WLTLPGET QDSRGCARWC PQNSSCVNAT ACRCNPGFSS FSEIITPTE P TCDDINECAT PSKVSCKFS DCWNTEGSYD CVSPGYEPV SGAKTFKNS ENTCDVDEC SSQHQCDS TLGRTVGSY SCRCRPGWKP RVGPNQKD TVCEDMTFST WTPPGVHSQ TLRFFDKVQ DLGRDSKTS AEVTIQNVIK LVDELMEAPD DVEALAPPVR HLIATQLLSN LEDIMRILAK SLKGPFTYI SPSNTELTLM IQERGDKNVT MGQSSARMKL NWAVAAGAEED PGPAVAGILS IQNMTLLAN ASLNLSKKQ AELEIYESS IRGQLRRLS AVNSIFLSHN </p>	Homo sapiens
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89	941	EMR1 Hormone NM_001974 Receptor	Homo sapiens
<p>NTKELNSPIL FAFSHLESSD GEAGRDPPAK DVMGPRQEL LCAFWKSDSD RGGHWATEVC QVLGSKNGST TCQCSHLSSF TILMAHYDVE DWKLTILITRV GLALSFLCLL ICILTFLLVR PIQGSRTIHLHLICICLFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE GLELYFLVVR VFQOGLSTR WLCLIGYGVPLIIVGVSAAI YSKGYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINPDMKKLK KARALTITAI AQLFLLGCTW VFGLFIFDDR SLVLTIVFTI LNCLOGAFLY LHCLLNKKV REEYRWACL VAGGSKYSEF TSTTSGTGN QTRALRASES GI</p>			
<p>ctaaagtttt ttctcttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A tcttctgggg atgttgtgtt atgcacagct gggaaggcca cataagacc acacggaaac caaacacaaa gggtataaac tgtagagaca gtacctgtgt cccagcttat gccacctgca ccaatacggg ggacagttac tattgcactt gcaaacaaagg ctctctgtcc agcaatgggc aaaatcactt caaggatcca ggagtgcgat gcaagatat tgatgaatgt tctcaaaagg ccagccctg tggctctaac tcactctgca aaacctgtc agggagggtac aagtgcagct gttagatgg ttctcttctt cccactggaa atgactgggt cccaggaaaag ccgggcaatt tctcctgtac tgatatcaat gagtgcctca ccagcagggt ctgccccag cattctgact gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcatc tctagaaact ccacctgtga agacgtgaat gaatgtgcag atccaagagc ttgccagag catgcaactt gtaataacac tgttggaac tactcttgtt tctgcaacc aggatgtgaa tccagcagt gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa tgtgccccat caattcaaca tgcaccaaca ctctctggag ctacttttg accctgccacc ctggctttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaatgtagag atattgatga gtgccgcaa gatccatcaa cctgtgtgtcc taattctatc tgcaccaatg ccctgggctc ctacagctgt ggctgcattg taggtcttca tcccaatcca gaaggctccc agaaagatgg caacttcagc tgcctcagg ggctcagg tctcttcaa atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccaa agggaaaccg agtgaacct gcatactgtct ccttttgtc acaataaat aacatcttca gcgttctgga caaagtgtgt gaaaaataaa cgaccgtagt ttctctgaag aatacaactg agagctttgt cctgtgtctt aaacaaatat ccatgtggac taaattcacc aaggaagaga cgtcctccct ggcacacagc ttcttgaga gtgtggaaag catgacactg gcatcttttt ggaaaccctc agcaaatgtc actccggctg ttcgggcgga atacttagac attgagagca agttatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttggtg gccaaagggg ataagatgaa gatcgggtgt tccacaattg aggaatctga atccacagag accactgtgt tggcttttgt ctcttttgtt ggcattggaat cggttttaaa tgagcgcttc ttccaagacc accaggctcc cttagaccac tctgagatca agctgaagat gaattctcga gtctgtgggg gcataatgac tggagagaag aaagacggct tctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagaggc ccatctgtgt ttcttgagc actgatgtga aggttggaag atggacatcc tttagctgtg tgatccctgga agcttctgag acatatacca tctgcagctg taatcagatg gcaaatcttg ccgttatcat ggcgtctggg gagctcacga tggacttttc ctgtacatc attagccatg taggcattat catctccttg gtgtgcctcg tcttggccat cgccacctt ctgtgtgtc gtcccatccg aaatcacaa acctacctcc acctgacct ctgcgtgtgt ctctcttgg cgaagactct ctctctcgcc ggtatacaca agactgaca caagacgggc tgcgccatca</p>			

90	941	EMR1 Hormone NP_001965.1 Receptor	<p> tgcggggtt cctgcactac cttttccttg cctgcttctt ctgcatgctg gtggaggctg tgatactgtt cttgatggtc agaaacctga aggtggtgaa ttacttcagc tctcgcaaca tcaagatgct gcacatctgt gcctttggtt atgggctgcc gatgctggtg gtggtgatct ctgccagtgt gcagccacag gctatggaa ttgataatcg ctgctggctg aatacagaga caggttctat ctggagtctt ttggggccag ttgacacagt tatgtgac aactcccttc tctgacctg gacctgtggt atcttgaggc agaggcttct cagtgttaat gccgaagtct caacgctaaa agacaccagg ttactgacct tcaaggcctt tgcccagctc ttatccctgg gctgctcctg ggtgctggc attttcaga ttggacctgt ggcaggtgtc atggcttacc tgttccacct catcaacagc ctgcaggggg ccttcattct cctcaccac tgtctgctca acggccaggt acgagaagaa tacaagaggt ggatcactgg gaagacgaag ccagctccc agtcccagac ctcaaggatc ttgctgtcct ccatgccatc cgcttccaa acgggttaaa gcctttcttg ctttcaata tgctatggag ccacagttga ggacagtagt ttctgtagg agctaccct gaaatctctt ctgagcttaa catggaaatg aggatccac cagccccaga acctctggg gaagaatgtt gggggccgtc ttctgtggtt tgtatgact gatgagaaat cagactttc tgctccaaac gacctttta tctctgtgct ctgcaacttc ttcaattcca gagttctga gaacagacc aaattcaatg gcatgaccaa gaacacctgg ctaccattt gttttctct gccctgtgtg gtgcatggtt ctaagcgtgc cctccagcg cctatcatac gctgacaca gagaaacctt caataaatga ttgtctgctt gtctgactga tttaacctaa aaaaaaaaa aaaaaaaaaa aaaaaaaa MRGNLLLFW GCCVMHSEWEG HIRPTRKPT KGNNCRDSTL CPAYATCNT VDSYYCTCKQ P GFLSSNGQNH FKDPVGRCKD IDECSQSPQP CGNSSCKNL SGRYKCSCLD GFSSPTGNDW VPGKPGNFSC TDINECLTSR VCPESHDCVN SMGSJCSQCG VGFISRNSTC EDWNECADPR ACPEHATCNN TVGNYSFCFN PGFESSGHL SCQGLKASCE DIDECTEMCP INSTCTNTPG SYFCTCHPGF APSSGQLNFT DQGECDRID ECRQDPSTCG PNSICTNALG SYSCGCIQVF HPNPEGSKD GNFSCQRLV KCKEDVIPDN KQIQCCQEGT AVKPAYVSFC AQINNIFSVL DKVCENKTV VSLKNTTESF VPVLKQISMW TKFTKEETSS LATVFLESVE SMTLASFWKP SANVTPAVRA EYLDIESKVI NKECSEENV LDIKAKGDKM KIGCSTIEES ESTETTGVAE VSFVGMESVL NERFFQDHQA PLTTSEIKLK MNSRVVGGIM TGEKKDGFSD PIYTLENVQ PKQKFERPIC VSWSTDVKGK RWTSTFGCVIL EASETYTICS CNQMANLAVI MASGELTMDF SLYIISHVGI IISLVCLVLA IATFLLCRSI RNHTYHLHL LCVCLLLAKT LFLAGIHKTDF NKTGCAIAG FLHYLFLACF FWMLEAVIL FLMVRNLKVV NYFSSRNIM LHICAFGYGL PMLVVVISAS VQPQGYGMHN RCWLNTETGF IWSFLGPVCT VIVINSLLT WTLWILRQRL SSVNAEVSTL KDRLLTFKA FAQLFILGCS WVLGFIQIGP VAGVMAYLFT IINSLQGAFI FLIHLNGQ VREYKRWIT GKTKPSSQSQ TSRILLSMSP SASKTG ggaacacgac acctagaagt aggagtgaaga ttccgtgaag ttcccttctg aggaagaccc A acccctccgc ctggagagcc ggggctggcg gtgctctgagg accctctgg cctggacagc ccacgcgggc ttggggggcc tgcctctgcc ctcagtggcg ggcctatcgg tcccgaagcg gcgagtgaat attcaaatgg ccagtggggg gcgcactcgg aagtggccgc ccgcgatgag gcagttcagc ggcctcgaga gtccgggggag ggaggtttat tctccgctg cagcagactg tgaatccgc aacctagc aggagagcg gccctgtgtg ggaagagcc accaacatct ggacggcagg taccagaga gtgagcagct ccacgcggga ctgtgacagg tggccgacac </p>	Homo sapiens
91	965	G Protein-Coupled Receptor GPR30	<p> NM_001505 </p>	Homo sapiens

ccgcaggagac gccgcgcgga cgcgcgcgcg gaggccctc gctccacgg atgcaccatg
 ccggtgtgag gagcatctgt tcttcccat tctgcagtt aacaaaccca accaaaccca
 ccacagggtc tctcctggg gatttctctg tctgacaaat gccagggtca cttcaaggag
 aatcacgctt cttctaaag atgattcac catttaaac agagctctgg gaccttctg
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 ccataaaatg taagaaagc tgatgaggct ggtgacgttc agccttctgc aataaacctg
 tcatgtgcgg atcctt

Homo

P

EHQYVIGLF

ALANGTGELS

LNLSPHLLGT

PAAPTNTSPE

GLEMPGTQAQ

NP_001496.1

MDVTSQARGV

G Protein-

92 965

93	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	LSCLYTIFLF PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNLH sapiens
					ERYDYDIAVLC TFMSLFLOVN MYSSVFFLTW MSFDRIYALA RAMRCSLFRT KKHARLSLSCGL sapiens
94	978	Cholecystoki nin A Receptor	NP_000721.1	MDVVDLSLWN GSNITPPCEL GLENETLFLCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P Homo sapiens	IWMASVSATL VPFTAVHIQH TDEACFCFAD VREVQWLEVT LGFIVPFAII GLCYSLIVRV sapiens
					LVRAHRHRGL RPRRQKALRM ILAVLVVFFV CWLPENVFIS VHLQRTQPG AAPCKQSFRI sapiens
95	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	AHPLTGHIVN LAAFNSCLN PLIYSFLGET FRDKRLRYIE QKTNLPALNR FCHAALKAVI sapiens
					PDSTEQSDVR FSSAV sapiens
96	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	ggaatggctg aaaaagccca cacctggaaa tcaactccctc cctgtcctc cagggcaggt A Homo sapiens
					tgcattctcg agacgtctcg gtcattagag gaatgagccg ggagtgagca attcaccagc sapiens
97	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	tctccagcac ttgggtgaaa gcagcaggca aggatggatg tgggtgacag ccttcttggt sapiens
					aatggaagca acatactcc tccctgtgaa ctggggtctg aaaaagagac gctttttctg sapiens
98	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	ttggatcagc cccgtccttc caaagagtgg cagccagcgg tgcagattct cttgtactcc sapiens
					ttgatattcc tgctcagcgt gctgggaaac acgtggtca tcaccgtgct gattcgggaa sapiens
99	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aagcggatgc ggacgggtcac caacatcttc ctctctccc tggctgtcag cgacctcatg sapiens
					ctctgtctct tctgcatgcc gttcaacctc atccccaatc tgcacaagga tttcatcttc sapiens
100	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	gggagcgccg tttgcaagac caccacctac ttcagtggga cctctgtgag tgtatctacc sapiens
					tttaatctgg tagccatata tctagagaga tatggtgcga ttgcaaaacc cttacagttc sapiens
101	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	cgggtctggc agacaaaac ccatgctttg aaggtgattg ctgtactctg gtgcctttcc sapiens
					tttaccatca tgactccgta cccatttat agcaacttgg tgccttttac caaaaataac sapiens
102	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aaccagaccg cgaatatgtg ccgctttcta ctgcaaaatg atgttatgca gcagtcctgg sapiens
					cacacattcc tgttactcat cctctttctt attcctggaa ttgtgatgat ggtggcatat sapiens
103	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	ggattaatct ctttggaaact ctaccaggga ataaaatttg aggcctagcca gaagaagtct sapiens
					gctaagaaga ggaacctag caccaccagc agcggcaaat atgaggacag cgatgggtgt sapiens
104	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	tacctgcaaa agaccaggcc ccgagggaag ctggagctcc ggcagctgtc caccggcagc sapiens
					agcagcaggg ccaaccgcat ccgagtaaac agctccgcag ccaacctgat ggccaagaaa sapiens
105	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aggtgatcc gcattgctcat cgtcatcgtg gtcctcttct tcctgtgctg gatgcccatc sapiens
					ttcagcgcca acgcttggtg ggctacgac accgctccc cagagcgccg cctctcagga sapiens
106	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	accccatctt ccttcactct cctcctgtcc tacacctcct cctgggtcaa ccccatcatc sapiens
					tactgcttca tgaacaaaac cttccgctc ggcttcattg ccaccttccc ctgctgcccc sapiens
107	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	aatcctggtc cccagggggc gagggagag gtgggggagg agggagaagg cgggaccaca sapiens
					ggagcctctc tgtccaggtt ctgctacagc catatgagt cctcggtgcc acccagtgga sapiens
108	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	gatgtccctt gaccctccac cgcagaagga aggcagggag gaggcagaga agaaagaacg sapiens
					gaagaagaga tcaggaaag aggagcaga cagagctga tggagaagga aggtcccatc sapiens
109	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	tccagtggga actcttcaag gtctcttttc atccttcata tgattccaga gcactgctcc sapiens
					agtggggcca tgattgggtt ctaggcagtt caaagcagga tatgttaagt aacactcaac sapiens
110	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	catcag sapiens
					MDVVDLSLWN GSNITPPCEL GLENETLFLCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P Homo sapiens
111	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	LVITVLIRNK RMRTVTNIFL LSLAVSDLML CLFCMPFNLI PNLLKDFIFG SAVCKTTTYF sapiens
					MGTSVSVSTF NLVAISLERY GAICKPLQSR VMQTKSHALK VIAATWCLSF TIMTPYPIYS sapiens
112	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	NLVPTKNNN QTNMCRFLN PNDVMQSWH TFLLLILFLI PGIVMMVAYG LISLELYQGI sapiens
					KFEASQKKA KERKPSITSS GKYESDGCY LQKTRPPRKL ELRLSTGSS SRANRIRSNS sapiens
113	978	Coupled Receptor GPR30	Cholecystoki nin A Receptor	NM_000730	SAANLMAKKR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASAERLSGT PISFILLISY sapiens

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	<p>TSSCVNPIIY CFMNRRLG FMATFPCCPN PGPPGARGEV GEEEGGTTG A\$LSRFSYSH MSASVPPQ</p> <p>atggacgagg cactgctcca cagcctgctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggagggctg ggggccaacc ctggaccctg aggttcccta ctctactgc aacagacct tggacagat cggaacgtgc tggccccgca ggcctgcccg agcctcgtg gagaggcgt gcccgagta ctccaacggc tcaaatgata acacgaccgg gaatgcttat cgagaatgct tggagaatgg gacgtgggccc tcaaatgata actactcaca gtgtgagccc atttgatg acaagcagag gaagtatgac ctgcactacc gcctgcccct tgcgtcacc tacctgggccc actgctgctc tgtggcagcc ctgggtggccc cctcctgct tttcctggcc ctgaggagca ttcgtgctct gcggaatgtg attcaactgga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgctgag ctcgttgacc atgaagtgca cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctgtgtgac caacttcttc tggatgtttg tggaggctg ctacctgac acggccattg tcatgacctc ctccactgag cgctgagca agtgcctctt cctcttcac ggaatgtgca tccccctccc catcatcgct gcctgggcca tcggcaagct ctactatgag aatgaacagt gctgggtttgg caaggagcct ggcgacctgg tggactacat ctaccaaggc cccatcattc tctgtctctt gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacggcgctc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccacctgg tgcctctgccc cctcctgggc atacactaca tgccttctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actccttctt gcagtcttcc cagggtttct tctgtctgtt ctctactgc ttcttcaatg gagaggtgct ctgagcctg aggaagaggt ggcacggctg gcaggacctt cactcccttc gactcccat ggcggggccc atgtccatcc ctacatcacc cacacggatc agcttccaca gcataagca gacggcgct gtgtgacccc tgggtcgccc acctgcacag ctccccgtc ctctccacc ttcttctctt ggttctctg tgcgtggcag gctctcgtgg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtggcgc agccaaaggg gactgcaagg gacagggatg agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcatttg ccatcccgag cctctctgccc cagggcctta ctgggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcagacac agggctcccc tgcctactc atggagccag cagccaggca atgtgtgctg cctgactgg ccttggact ccactctcag tgggtcccctg cagttgggtg ggttaacgccc aagcaaaagg tcaagtttggc tgccttatcc cagggtctgc acctagagag gctcacttgt acccaccctt gttcctgtgt cccccccca gccatcctcc ccgcttggg ggtccatga aggatgcagg ttccacggcc tggcttctc tcttgggaga ccccctctct gcttagtcca cagattaggc aatcaaggaa gacgccatca gggaagccac atccttagtc aaccagttgc atcgtgagg gcaaaatgag gacgagaggc atggagaggg gaggcgtggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccctt cctccagtc tccccctcag aaacatctct gctctctgtg aaataaacca tgctctcttg</p>	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	<p>MDAALLHSLL EANCSLALAE ELLLDGWGPP LDPEGPYSYC NTTLDOIGTC WPSAAGALV P ERPCPEYFNG VKYNTTRNAY RECLENGTWA SKINYSQCEP ILDDKQRYD LHYRIALVNV YLGHCVSVAA LVAEFLFLA LRSIRCLRNV IHNWLTITFI LRNVWFLIQ LVDHEVHESN</p>	Homo sapiens

97 1240 Dopamine Receptor D1 NM_000794

127/448

98	1240	Dopamine Receptor D1	NP_000785.1	<p> tctgtgttg ttcatagtca atcaaacagg gacactacaa acatggggag ccaataagga catgtctttg gcttcagaat tgtttttaga aatttattct tatcttagga ttaccacaa aggcaaaaga atcaacagtg aacagcttca cttaaataca aatttttctg ggaagaaaaat gagatgggtt gagtttgctg tacaacaa ggtgtaaca cgtttcccg caagtttctc agattgtaaa ggtagggtgca tgccttcata aattattctt aaacatttaa ttgaggctta cagtaggagt gagaattttt ttccagaaat tgagagatgt ttggttgata ttggttctat ttattttatt tatatatgga tttttttaat ttatgatata ataaatatat atttatcata tttaatagga taaattaatg agttttatcc aagaccttac aaccacattt ctggccattt aactagcact ttataagcca atgaagcaaa cacacagact ctgtgagatt ctaaatgttc atgtgtaact tctaga </p>	Homo sapiens
				<p> MRTLNTSAMD GTGLVVERDF SVRILTACFL SLLILSTLLG NTLVCAAVIR FRHLRSKVTN P FFVISLAVSD LLVAVLMPW KAVAEIAGFW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD RYWAISSPF YERKMTPKAA FILISVAVTL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA ETIDNCDSSL SRTYAISVV ISFYIPVAIM IVTYTRIYRI AQKIRIRIAA LERAAVHAKN CQTTGNKGP VECSQPESSE KMSFKRETKV LKTLSSVIMGV FVCCWLPFFI LNCILPFCGS GETQPFICDS NTFDFVWFG WANSSLNPII YAFNADFERKA FSTLIGCYRL CPATNNAIET VSINNGAAM FSSHHEPRGS ISKECNLVYL IPHAVGSSED LKKEAAGIA RPLEKLSPAL SVLDYDTDV SLEKIQTITQ NGQHP </p>	
99	1241	Dopamine Receptor D5	NM_000798	<p> ggcacagggc aggggtgaag ttgggaccgc gacacagacc cccctgcagt ccagcccgaa A atgctgcccgc caggcagcaaa cggcaccgcg tacccggggc agttcgctct ataccagcag ctggcgccagg ggaacgcctg ggggggctcg gggggggcac cgcactggg gccctcacag gtggtcaccg cctgcctgct gacccactc acatcttggg cctgctggg caacgtgctg gtgtgcgcag ccctcgtgcg gacccgccac ctgcgcgcca acatgaccaa cgtcttcac gtgtctctgg ccgtgtcaga ccttttcgtg gcgtgctgg tcatgcctg gaaggcagtc gccagagtg cgggttactg gccctttgga gcgttctgag acgtctgggt ggcttcgac atcatgtgct ccactgcctc cactctgaac ctgtgcgtca tcagcgtgga ccgctactgg gccatctcca ggccttccg ctacaagcg ctacatcctc atctccttca ttccggtcca gctcaactgg gtcggcctgg catggacctt gtccatcctc atctccttca ttccggtcca gctcaactgg cacagggacc agcgggcctc ttggggcggg ctgggacctg caaacactg ggccaactgg acgcccctgg aggaggaact ttgggagccc gacgtgaatg cagagaaactg tgactccagc ctgaatcgaa cctacgccat ctcttccctg ctcatcagct tctacatccc cgttgccatc atgatcgtga cctacacgcy catctacccg atgcgccagg tgcagatccg caggatttcc tccctggaga gggccgcaga gcacgcgcag agtgcccgga gcagcgagc ctgctgcgcc gacaccagcc tgcgcgcttc catcaagaag gagaccaagg ttctcaagac cctgtcgggtg atcatggggg tcttcgtgtg ttgctggctg ccttcttcca tcttcaactg catggttccct ttctgcagtg gacacctga agccctccg gccggcttcc cctgcgtcag tgagaccacc ttcgacgtct tcgtctgggt cggctgggct aactcctcac tcaaccctg catctatgcc ttcaacgccc actttcagaa ggtgtttgccc cagctgctgg ggtgcagcca ctctgtctcc cgacgcccgg tggagacggt gaacatcagc aatgagctca tctcctacaa ccaagacatc gtcttccaca aggaatcgc agctgcctac atccacatga tgcccaacgc cgttaccccc ggcaaccggg aggtggacaa gcacgaggag gaggggtcctt tcgategcat gtccagatc </p>	Homo sapiens

100	1241	Dopamine Receptor D5	NP_000789.1	<p> aaaaaaaaa MLPPGSSNGTA YPGQFALYQQ LAQNAVGGG AGAPPLGPSQ VVTACLTLTL IIWTLGNVL P VCAAIIVRSRH LRANNTNVEI VSLAVSDLEF ALLVMPWKAV AEVAGYWPFQ AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTSLIL ISFIPVQLNW HRDQAASWGG LDLPNLANW TPWEEDFWEF DVNAENCDSS LNRTYAISSS LISFYIPVAI MIVTYTRIYR IAQVQIRRIIS SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLVS IMGVFECCWL PFFILNCMVP FCSGHPEGPP AGFPCVSETT FDFVFWFGWA NSSLNPVIYA FNADFQKVEA QLLGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAAY IHMPNNAVTP GNREVDNDEE EGPFDRMFQI YQTS PDGDPV AESWELDCE GEISLDKITP FTPNGFH agagcctggc caccagctgg ctccaccgc ctgatggatc cactgaatct gtccgtgtat A gatgatgatc tggagaggca gaactggagc cggcccttca acggttcaga cgggaaggcg gacagacccc actacaacta ctatggcaca ctgctcacc tgcctcatcg tgctcatcgtc ttcgggcaacg tgcgtggtgtg catggctgtg tcccgcgaga aggcgctgca gaccaccacc aactacctga tcgtcagcct cgcagtgccg gacctcctcg tcgccacct ggctatgccc tgggttgtct acctggaggt ggtaggtgag tggaaattca gcagattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaaag cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtgca tcattgcaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcccctta ttgtcacct gctggtctac atcaagatct acattgtcct ccgacagcg cgcagcgag tcaacacca acgcagcagc cgagctttca gggccacct gagggctcca ctaaaggga actgtactca cccgaggagc atgaactctt gcaccgttat catgaagtct aatgggagtt tcccagtgaa caggcgagga gtggaggctg cccggcgagc ccaggagctg gagatggaga tgctctccag caccagccca cccgagagga cccggtacag ccccatcca cccagccacc accagctgac tctccccgac ccgtccacc atggtctcca cagcactccc gacagccccg ccaaccaga gaagaatggg catgccaaa accaccccaa gattgccaa gcttttga tccagacct gcccaatggc aaaacccgga cctccctcaa gaccatgagc cgtagggaagc tctcccagca gaaggagaag aaagccactc agatctcgc cattgttctc ggcgtgttca tcatctgtc gctgcccttc ttcatcacac acatcctgaa catacactgt gactgcaaca tcccgccctgt cctgtacagc </p>	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	<p> aaaaaaaaa agagcctggc caccagctgg ctccaccgc ctgatggatc cactgaatct gtccgtgtat A gatgatgatc tggagaggca gaactggagc cggcccttca acggttcaga cgggaaggcg gacagacccc actacaacta ctatggcaca ctgctcacc tgcctcatcg tgctcatcgtc ttcgggcaacg tgcgtggtgtg catggctgtg tcccgcgaga aggcgctgca gaccaccacc aactacctga tcgtcagcct cgcagtgccg gacctcctcg tcgccacct ggctatgccc tgggttgtct acctggaggt ggtaggtgag tggaaattca gcagattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaaag cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtgca tcattgcaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcccctta ttgtcacct gctggtctac atcaagatct acattgtcct ccgacagcg cgcagcgag tcaacacca acgcagcagc cgagctttca gggccacct gagggctcca ctaaaggga actgtactca cccgaggagc atgaactctt gcaccgttat catgaagtct aatgggagtt tcccagtgaa caggcgagga gtggaggctg cccggcgagc ccaggagctg gagatggaga tgctctccag caccagccca cccgagagga cccggtacag ccccatcca cccagccacc accagctgac tctccccgac ccgtccacc atggtctcca cagcactccc gacagccccg ccaaccaga gaagaatggg catgccaaa accaccccaa gattgccaa gcttttga tccagacct gcccaatggc aaaacccgga cctccctcaa gaccatgagc cgtagggaagc tctcccagca gaaggagaag aaagccactc agatctcgc cattgttctc ggcgtgttca tcatctgtc gctgcccttc ttcatcacac acatcctgaa catacactgt gactgcaaca tcccgccctgt cctgtacagc </p>	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p> gctttcacgt ggcctgggcta tgtaaacagc gccgtgaacc ccatcatcta caccaccttc aacattgagt tccgcaaggc cttcctgaag atcctccact gctgactctg ctgcctgccc gcacagcagc ctgcttccca cctccctgcc caggccggcc agcctcacc ttgcgaaccg tgagcaggaa ggcctggggtg gatcgccctc ctctctttag ccccgccagg cctgcagtg ttcgtctggc tccatgctcc tcaactgccg cacaccctca ctctgccagg gcagtgctag tgagctgggc atggtaccag cctggggct ggccccact caggggcagc tcatagagtc ccccctcca cctccagtc cctatcctt ggcacaaaag atgcagccgc ctctcttgac cttccctgg ggctctaggg ttgctggagc gccagagagg gccagtttct ctttgtggg cttggcgtgg agcagcggt ggggagagat ggacagttca caccctgcaa ggccccagg aggcaagcaa gctctcttgc cagagagcca ggcaacttca gtcctgggag acctatgtaa ataccagact gcaggttggg cccgagagat tcccaagcca aaacacctag ctccctccg cacccgatg tggacctcta cttccaggc tagtcggag caccctcacc cgtttacagc tcccgaagt gttccacat gctctgagaa gaggagccct catcttgaag ggccacaggag ggtctatggg gagaggaaact cttggccta gccacccctg ctgccttctg acggccctgc aatgtatccc tctcacagc acatgctggc cagcctgggg cctggcaggg aggtcaggcc ctggaactct atctgggctt acgcaaaacc acttctctt tctattcctt ctggccttc actgcctctg ccacactctg acgcaaaacc acttctctt tctattcctt ctggccttc ctctctctg tttcccttcc cttccactgc ctctgctta gaggagccca cggctaagag gctgctgaaa acctatggc ctggcctggc cctgccccga ggaaggaggg gaagctgcag cttgggagag cccctgggc ctagactctg taacatcact atccgatgca ccaaactaat aaaacttga cgaactcact tc </p>	<p> Homo sapiens GNLVCMAS P LTLIAVIVF KFSRIHCDIF VLSFTISCP KRVNKRSSR MEMLSSTSP FEIQTMENGK CNIPPLYSA FTWLGYNVSA LHC </p>
103	1243	Dopamine Receptor D3	NM_000796	<p> taagaaaaac ggatacattc gaaagcagct atgaacacatg cactaagggtc taataggaa A gctggaaaaag cagcactcaa gtaatttcac cttagaggga aaaaagggtg attctcttct gttcatttca tagtttctga gctctgagaa aggcacaaagt tgccttgcctt ggtatgtct gctgtcagta aatggctgca ggagccgaag tggtaaaactc ctgggtctcc agaaatcaga agaaaattt aggaagcccc ttggcatcac gcaactccct ctgggctatg gcatctctga gtcagctgag tagccacctg aactacacct gtggggcaga gaactccaca ggtgccagcc aggcccgccc acatgcctac tatgccccct cctactcctg gctcactctg gccatcgtct tcggcaatgg cctggtgtgc atggctgtgc tgaaggagcg ggccctgag actaccacca actacttagt agtgagcctg gctgtggcag cctgtggtgt ggccacctg gtgatgccct gggtgggata cctggaggtg acaggtggag tctggaaattt cagccgcaat tgcgtgtgatg ttttgtcac cctggatgtc atgatgtga cagccagcat ccttaaatctc tgtgccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga </p>	<p> Homo sapiens A </p>

Homo
sapiens

P

NP_000787.1

Dopamine
Receptor D3

1243

104

gctcctgtcg ggcgtggcc ctcatgatac cggcgtctg ggtactggcc ttgctgtgt
cctgcectct tctgtttggc ttaataacca caggggacc cactgtctgc tccatctcca
acctgattt tctcatctac tcttcagtgg tctccttcta cctgcccctt ggagtactg
tcttctcta tgccagaatc tatgtgtgct tgaacaaaag gacagggaaa aggatactca
ctgacagaa cagtcagtgc aacagtgtca ggcctggctt ccccaacaa accctctctc
ctgacccggc acatctggag ctgaagcgtt ctacacagat ctgccaggac actgccttgg
gtggaccagg ctccaagaa agaggaggag agttgaaaag agaggagaag actcggaatt
ccctgagtc caccatagcg ccaagctca gcttagaagt tcgaaaactc agcaatggca
gattatcgac atcttgaag ctggggcccc tgcaacctcg gggagtggca cttcggggaga
agaaggcaac ccaaatggtg gccattgtgc ttggggcctt catgtctgc tggctgacct
tcttcttgac ccatgttctc aataccact gccagacatg ccacgtgtcc ccagagcttt
acagtggcac gacatggctg ggctacgtga atagcgcct caacctgtg atctatacca
ccttcaatat cgagttccgg aaagccttc tcaagatcct gtctgtctga gggagc
MASLSQLSSH LNYTCGAENS TGASQARPHA YYALSYCALI LAIVFNGLV CMAVLKERAL
QTTNYLVVS LAVADLLVAT LVMPWVYLE VTGGWNFSR ICDDVFVTL DVMCTASILN
LCAISIDRYT AVMPVHYQH GTGSSCRRV ALMITAVWL AFAVSCPILL GFNTTGDPTV
CSISNPDFVI YSSVVSFYLP FGVTVLVYAR IYVVLKQRRR KRILTRQNSQ CNSVRPGFPQ
QTLSPPPAHL ELKRYYSICQ DTALGGPGFQ ERGELKREE KTRNSLSPTI APKLSLEVRK
LSNGLSTSL KLGPLQPRGV PLREKKAQOM VAIVLGAFFV CWLPFFLTHV LNTHCQTCHV
SPELYSATTW LGVNSALNP VIYTFNIEF RKAFLKILSC

NM_000797

Dopamine
Receptor D4

1244

105

Homo
sapiens

A

atggggaacc gcagcacgc ggacgcggac gggctgtctg ctggcgcgcg gccggcgcg
ggggcatctg cgggggcatc tgcggggctg gctgggcagg gcgcggcgcg gctggtgggg
ggcgtgctgc tcacgcgcgc ggtgctgcgc gggaaactgc tctgtgtcgt gacgtggcc
accgagcgcg cctgcagac gccacacac tcttctcatg tggacctggc gccgcgcgac
ctctcctctg ctctcctggt gctgcgcgtc ttctctact ccgaggtcca ggggtggcgcg
tggctgctga gccccgcct gtgcgacgc ctcattggcca tggacgtcat gctgtgcacc
gcctccatct tcaacctgtg gccatcagc gtggacaggt tctgtggcgt gccgtgccc
ctgcgctaca accggcaggg tggagccgc cggcagctgc tgcctcatcg gccacgtgg
ctgctgtccg cggcggtggc ggcccccgtg cgtgtcgccg tcaacgact gcgcggcgcg
gaccccgccg tgtgcgcct ggaggaccgc gactacgtgg tctactctgc cgtgtgtctc
ttcttctac cctgcgcct catgtgtctg ctctactggg ccacgttccg cggcctgcag
cgtggggagg tggcacgtcg gcacaaactg cagcgcccg cgcccccg acccagcggc
cctggcccg cttccccac gccaccccg cccgcctcc cccaggacc ctgcggcccc
gactgtgcgc cccccgcgc cggccttccc cggggctccc gcggccccga ctgtgcgcc
ggcgcggccc gctcccccc ggacccctgc gggcccgact gtgcgcccc cgccccggc
ctccccagg acccctgcgc ccccgactgt gcgcccccg cggccccct tccccgggt
ccctggggcc cggactgtgc gcccccccg cccggcctcc cccaggacc ctgcggcccc
gactgtgcgc cccccgcgc cggccttccc cgggacccct gcggctccaa ctgtgtctcc
ccgacgcgcg tcagagccgc cgcgtctccc cccagactc caccgagac ccgacggagg
cggcgtgcca agatcacccg ccgggagcgc aaggccatga gggctcctgc ggtggtggtc
ggggccttcc tctgtgtctg gacgcccctc tctgtgtgtg acatcacgca ggcgtgtgt

106	1244	Dopamine Receptor D4	NP_000788.1	<p> cctgacctgt cctgcccccc ggggtgtgtc aggcgcgtca cctggcttggg ctacgtcaac agcgccctca acccgtcat ctacactgtc ttcaacgcg agttccgcaa cgtcttccgc aaggccctgc gtgctgtctg ctgagccggg caccgccgg cgtccccgg cctgatggc aggcctcagg gaccaaggag atggggaggg cgtttttgta cgttaattaa acaaatctct tccc </p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p> MGNRSTADAD GLLAGRPAA GASAGASAGL AQGAAALVG GVLLIGAVLA GNSLVCVSPA P TERALQTPTN SFIVSLAAAD LLLALLVLPL FVSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVAP LRYNRQGSR RQLLLIGATW LLSAAVAAPV LCGLNDVRGR DPAVCRLEDR DYVYSSVCS FFLPCPLMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPPSPTPPA PRLPQDPCGP DCAPPAPGLP RGPCGPDCA AAGGLPPDPC GPDCAAPPAG LPQDPCGPD CAPPAPGLRG PCGPDCA PGLPQDPCGP DCAPPAPGLP PDCGNSCAP PDAVRAAALP PQTPPQTRRR RRAKITGRER KAMRVLPLVV GAFLLCWTFP FVHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFNRVER KALRACC ccgaggagcc tgcgtgtctc ctggctcaca gcgctccggg cgaggagagc gggcggaccg A gggggctggg ccggtgctgg cgcgaggga ggcgagcag ggcgagagac agcgggggcg cgggggctgg gcacggcg ggtcgggg gccctctgcc ttgcgctcc cctcgcgtcg gatccccgcg ccagggcagc cgggtggag ggcgcgggc gacgcccga gccatggaa cggccccctc cgcggcgcc gagctgcag cccgctctt cgcgaacgcc tcggacgct acctagcgc ctccccagc gctggcgcca atgctcggg gccgcaagg cgggggagcg cctcgtccct cgcctggca atcgccatca cgcgctcta ctcggcgctg tgcgctgg ggctgctgg caactgtct gtcatgttc gtactgtcc gtactaaag atgaagacgg ccaccaacat ctacatctc aacctggcct tagcgcctc gctggccacc agcacgctc ctttccagag tgccaagtac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catcgactac tacaatatgt tcaccagcat cttcacgctc accatgatga gtgtgacct ctacatcgt gtctgccacc ctgtcaaggc cctggacttc cgcagcctg ccaaggccaa gctgatcaac atctgtatct ggttccctgg ctcaggcgtt ggcgtgcca tcattgtcat ggctgtacc cgtccccgg caggtgcagt ggtgtgcagt ctccagttcc ccagccccag ctggtactgg gacacggtga ccaagatctg cgtgttctc ttgccttcg tgggtgcccc cctcactc accgtgtgct atggcctcat gctgctgcg ctgcgagtg tgcgctgtct gtcgggctcc aaggagaagg accgagcct ggcgagcat acgcgcatgg tgctggtggt tgtggcgcc ttctgtgtgt gttggcgcc catccacatc ttctcatcg tctggacgt ggtggacatc gacggcgcg acccgctggt ggtggctgg ctgcacctgt gcatcgct gggctacgcc aatagagcc tcaacccctg gctctacgt ttctcagacg agaacttcaa gcgctgttc cgcagctct gcgcaagcc ctgcggccgc ccagacccca gcagcttcag cggccccgc gaagccacgg ccgcgagcg tgtcacccgc tgcaacctgt ccgatggtcc cggcggtggc cgtgcgcct gaccagcca tccggcccc agacgcccc ccctagtgt acccgaggc cacatgagtc ccagtggag gcgagacca tgatgtggag tgggggccagt agataggtcg gagggtttt ggaaccgca atggggcctc tgtttcggag acgggaccgg gccgtagt gggcatggg ttggcctctg gtttggggc aggcagagga cagatcaatg gcgagtgcc tctggtctgg ttgccccct ccaaggctct aggtggggcg ggaagaccag tgactccagg agaggagcg gactgtggc tctacaactg agtccttaa </p>	Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	cagggcatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttggga gccggacttt cggagttggg gggccggggg ccc MEPAPSAGAE LQPPLFANAS DAYPSAPPSA GANASGPPGP GSASSLALAI AITALYSAVC P AVGLLGNVLV MFGIVRYTKM KTATNIYFN LALADALATS TLPFQSAKYL METWPFGE LL CKAVLSIDYY NNETSIFTLT MMSVDRIYAV CHPVKALDFR TPAKAKLINI CIWVLASGVG VPIMMAVTR PRDGAIVCML QFPSPSWYWD TVTKICVFLF AFVVPILIIIT VCYGLMLLRL RSVRLLSGSK EKDRSLRIT RMVLVVVGA FVWCWAPIHIF VIVMTLVVID RRDPLVVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCER QLCKRKPCGRP DPSSFSRPRE ATARERTAC TPSDGPGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggcctgaac caaacggtgc catggggaac tgtctgcaca gggtagtat ggggccaggc A cccagagtcc cttatcccta tgcccctcat ttcccctgct gttggcccct cagtccttat atctcttctt ttctctctc atcttttctc ctttcccgct ttttccctct tccctcaaaag tcttttctt tctctcttc ctatgtagc cctctagctc cttcttggtg cctcccttt gcctttgagt cagttccatc ctggtctctt ggtgcttctt cttctgacct tgcactgctc ctccagcccc agctgacctg gcttccccag gactgttctt gctcgggctc ttcagggtcc ctgctttgtc ctttccact gtcgcgactg catctgactc ctgcagagac cttgttctcc caccgacct tctctctgtt cctccctctc cactgcccc tcaattccca ggagactctt ccggtgtaac tctgatggcc tctctgggt atgtctctca ggcggagctc tccccctcaa ctgagaactc aagtcagctg gacttcgaag atgtatgga ttcttctat ggtgtgaatg attccttccc agatggagac tatgatgcca ccttggaagc agctgcccc tgccactct gtaacctgct ggaatgactt gcactgacct tcttccact caccagtgc ctgggtatcc tagctagcag cactgtctc ttcattgctt tcagacctct cttccgctgg cagctctgcc ctggctggcc tgtcctggca cagctggctg tgggcagctg cctcttcagc attgtggtgc ccgtcttggc cccagggcta ggtagcactc gcagctctgc cctgttagc ctgggctact gtgtctgga tggctcagcc ttgcccagg ctttgcctg aggtgacct gctccctgg gccacagact ggggtcaggc caggtccag gcctcaccct ggggctcact gtgggaattt ggggagtggc tgccctactg acactgcctg tcacctggc cagtgggtct tctggtggac tctgcacct gatatacagc acggagctga aggttttgca ggccacacac actgtagcct gtcttgccat cttgtcttg ttgccattg gttgttttg agccaaagggt ctgaagaagg cattgggtat ggggccaggc cctggatga atactctgtg ggcctggtt atttctggt ggcctcatgg ggtggttcta ggaatggatt tccgtggtgag gtccaaagctg ttgctgtgt caacatgtct gggccagcag gctctggacc tgcgtctgaa cctggcagaa gcccctggcaa ttttgcaactg tgtggctacg cccctgctcc tgcctctatt ctgccaccag gccaccgca ccctcttggc ctctctgccc cctccctgaag gatgtcttc tcatctggac acccttggaa gcaaatccta gttctcttc cactgtcaa cctgaattaa agtctacact gcctttgtg NP_002027.1 MASSGYVLQA ELSPSTENSS QLDFFEDVNS SYGVNDSFPD GDYDANLEA APCHSCNLLD P DSALPFILT SVLGILASST VLFMLFRPLF RWQLCPGPV LAQLAVGSAL FSIVVPVLAP GLGSTRSSAL CSLGYCVWYG SAFAQALLLG CHASLGHRLG AGQVPGTLTG LTVGIWGVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAIF VLLPLGLFGA KGLKKALGMG PGPWNILWA WFIFWPHGV VLGLDFLVR KLLILSTCLA QQALDLLLLNL AEALAILHCV ATPLLLALFC HQATRTLPLS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gataacacc tggaccacca ccaatggata tacaatggc aaacaatttt A actccgccct ctgcaactcc tcagggaat gactgtgacc tctatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctcttca tcaatgggct cgtgggaac ttactagcct tggctgctcat tgttcaaac aggaacacac tcaactctac caccctctat tcaacaaat tgggtgatttc tgatatactt ttaccacccg tttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaatc ggactgctg aatgtaggat aactgcgcta gtgttttaca tcaacacata tgcaggtgtg acatttatga cctgcctgag tattgaccgc ttcattgctg tgggtcaccc tctacgctac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tattgtctg gattctagta ttgtctaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaaggatt acatgcatgg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgcttggg gcattgttca taggatagt acttccact ataatcattc tcatctgcta ttctcagatc tgctgcaaac tcttcagaac tgccaaacaa aaccactca ctgagaaatc tgggtgtaac aaaaaggctc tcaacacaa tattcttatt attgttgtgt ttgtctctgt ttccacacct taccatgttg caattattca acatatgatt aagaagcttc gtttctctaa ttctctgga tgcagccaaa gacattcgtt ccagattttct ctgcacttta cagtatgctt gatgaactc aattgctgca tggacccttt tatctacttc tttgcattga aagggtataa gagaagggtt atgaggatgc tgaacggca agtcagtga tcgatttcta gtgctgtgaa gtcagccct gaagaaaatt cactgaaaat gacagaaacg cagatgatga tacattccaa gtcttcaaat ggaagtgaa atggattgta ttttggttta tagtgacgta aactgtatga caaactttgc agacttccc ttataaagca aaataattgt tcagcttcca attagtattc tttatatatt ctttcatatt gcactttccc atctccaaact cggaagtaag cccaagagaa caacataaag caaacacat aaagcaaat aaaaatgcaa ataaatattt tcatttttat ttgtaaacga atacacaaa aggagcgct cttataaact cccaatgtaa aaagttttgt tttaataaaa aatttaatta ttatttcttg ccaacaaatg gctagaagg actgaataga ttatatattg ccagatgtta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gttttgtttc gttctgggtc ataaaacttt gtttaaggaa tcttttgga taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALWIVQNR P KKINSTTLYS TNLVISDILF TTALPTRIAY YANGFDWRIG DALCRITLV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFWILVF AQTLP LLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLP LI IILICYSQIC CKLFRTAKQN PLTEKSGVKN KALNTIILII VVFLCFTPY HVAIIQHMIK KLRSNFLEC SQHSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSVS ISSAVKSAPE ENSREMTETQ MMIHSKSSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatcctga gagcactccc A aggtaggcatt ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccctgg aggatcaaca cagtggctga acactggga ggaactggta ctggagctt ggacatctga aacttggtc tgaactgcg cagcgccac cggagcctt ctggagcag tagcagcatg cagcgctc caagtctgtg cggacgcgc ctggtctgc tggttctgc ctgcgccctg tcgcgcatct ggggagagga gagaggttc ccgcctgaca gggccactcc gctttgcaa	Homo sapiens

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114	1486	Endothelin B NP_000106.1 Receptor	<p> acatgggtgct ttcttttcat ctaggagcaa aactgctttt tgagaccgta agaacctctt agcttttgctg gtctctgctt aatttttata tcttctaagc aaagtcctt aggatagctt gggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aatgaggtg gggttggagg aaacccatgg ggacagattc ccattcttag cctaacgttc gtcattgcct cgtcacatca atgcaaaagg tcctgatttt gtccagcaa aacacagtcg aatgttctca gagtgaacttt cgaataaagt tgggcccagg agtcttaaaa atatgcccac atttttactt tgtttttctt ttaataggct gggccacatg ttggaataaa gtagtaatg ttgttttctg tcaatattga atgtgatgt acagtaaac aaaaaccaac aatgtggcca gaagaaaga gcaataataa ttaattcaca caccatatgg attctattta taaatcacc acaaacctgt tctttaattt catcccaatc actttttcag aggcctgcta tcatagaagt cattttagac tctcaatttt aaattaattt tgaatcacta atattttcac agtttattaa tatatttaat ttctatttaa attttagatt atttttatta ccatgtactg aatttttaca tctgataacc ctctcttctt ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaactaca cacaaaaagc atacttgcat tatttataat aaaaatgcat tcagtggctt tttaaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat ttctttacat actcaaaacc aagatagaaa aaggtgctat cgttcaactt caaaacatgt ttcttagtat taaggacttt aatatagcaa cagacaaaaa tattgttaac atggatgta cagctcaaaa gatttataaa agattttaac ctattttctt ccttattatc cactgcta gtggatgtat gttcaaacac ctttttagtat tgatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgctgtagc taactttata aaagttaaat ataacaatgt aaaaattat atatctggga ggattttttg gtgcctaaa gtggctatag ttactgattt ttatttatgt aagcaaaacc aataaaaaat taagtttttt taacaactac cttattttt actgtacaga cactaaattca taaataacta atgtattgtt taaaagaaa ataaatgtga caagtggaca ttatttatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaagccac atttctggtc tctggg </p>	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	<p> MPPPSLCGR ALVALVLAG LSRIWGEERG FPDPRATPLL QTAEIMTPPT KTLWPKGSNA P SLARSLAPAE VPKGDRFAGS PRTISPPC QGRIEIKETF KYINTVVVSL VFVLGIIGNS TLLRIYKNK CMRNGPNILI ASALGDLH IVIDIPINV KLLAEDWPEF AEMCKLVFFI QKASVGITVL SLCALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAQMIFYK TAKDWLFSF YFCLPLAITA FFYTLMTCEM LRKSGMQIA LNDHLKQRRE VAKTVFCLVL VFALCWLPLH LSRILKLTLY QNDPNRCEL LSFLLVLDYI GINMASLNSC INPIALYLV KRFKNCFKSC LCCWCQSFEK KQSLEEKQSC LKFKANDHGY DNFSSNKYS SS </p>	Homo sapiens

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cactcctat tctcttaatt ttgttataaa tgttaactgg cagtaagtct ttttggatca
ttcccttttc catatagaa acataatttt gaagtggcca gatgagtta tcatgtcagt

116	1488	Endothelin A Receptor	NP_001948.1	<p>gaaaaataat taccacaaa tgccaccagt aactaaacga ttcttcaact ctgggggttt tcagtatgaa cctaactccc caccaccaaa tctccctccc acattgtcac catttcaaa ggccacagct gacttttgcg gggcattttc ccagatgttt acagactgtg agtacagcag aaaatctttt actagtgtgt gtgtgtatat atataaaca ttgtaaaattt cttttagccc attttctag actgtctctg tggaatatat aatctaataa cagtgtgccc aagtgccata ggtatgtatg gatttaattc aatctaataa cagtgtgccc aagtgccata gtctgagcta aaacttaggt gattgttcat ctgacaacc tgcctcagtc cattttaacc tgtagcaacc ttctgcattc ataaatcttg taatcatgtt accattacaa atgggatata agaggcagcg tgaagcaga tgagctgtgg actagcaata tagggttttg ttgtgttggg tggtttgata aagcagtatt tgggttcata ttgtttcctg tgcggagca aagtcatta cactttgaag tattatatgt ttcttatcct caattcaatg tgggatgaa attgccaggt tgtctgatat ttctttcaga cttgcgccga cagattgctg ataataaatt aggtaaagata attgttggg ccataattta ggacaggtaa aataacatca ggttccagtt gcttgaattg caaggctaag aagtactgcc cttttgtgtg ttagcagta aatctattat tccactggcg catcatatgc agtgatatat gccataataa taagccatag gttcacacca ttttgtttag acaattgtct ttttttcaag atgctttgtt tctttcatat gaaaaaaatg cattttataa attcagaaa tcatagattt ctgaaggcgt caactgtgcat ttattttatg gactggtaag taactgtggt ttactagcag gaatatctcc aatttctacc ttactacat cttttcaaca agtaactttg tagaaatgag ccagaagcca aggccctgag ttggcagtggt cccataaagt taaaataaaa gtttacagaa acctt</p>	Homo sapiens
117	1598	Calcium- Sensing Receptor (CASR)	NM_000388	<p>METLCLRAS F W L A L V G C V I S D N P E R Y S T N L S N H V D D F T T R G T E L S F L V T T H Q P T N L V L P S N G S M H N Y C P Q Q T K I T S A F K Y I N T V I S C T I F I V G M V G N A T L L R I I Y Q N K M R N G P N A L I A S L A L G D L I Y V I D I L P I N V F K L L A G R W P F D H N D F G V F L C K L F P F L Q K S S V G I T V L N I C A L S V D R Y R A V A S W S R V Q G I G I P L V T A I E I V S I W I L S F I L A I P E A I G F V M V P F E Y R G E Q H K T C M I N A T S K F M E F Y Q D V K D W L F G F Y F C M P L V C T A I F Y T L M T C E M L N R R N G S L R I A L S E H L K Q R R E V A K T V F C L V I F A L C W F P L H L S R I L K K T V Y N E M D K N R C E L L S F L L I M D Y I G I N L A T M N S C I N P I A L Y F V S K K F K N C F Q S C L C C C C C Y Q S K S L M T S V P M N G T S I Q W K N H D Q N N H N T D R S S H K D S M N</p>	Homo sapiens
117	1598	Calcium- Sensing Receptor (CASR)	NM_000388	<p>caacaggcac ctggctgcag ccaggaagga ccgcacgccc ttctcgcgag gagagtggaa A ggaggagct gtttgcagc accgaggtct tgcggcacag gcaacgcttg acctgagctt tgagaaatga aaggcatcac aggagcctc tgcattgatgt ggttccaaa gactcaagga ccaccacat tacaagtctg gattgaggaa ggcagaaatg gagattcaaa caccacgtct tctattattt tattaatcaa tctgtagaca tgtgtcccca ctgcaggag tgaactgctc caaggagaa acttctggga gccctcaaac tcttagctgt ctcacccctt gccctggaga gacggcagaa ccattggcatt ttatagctgc tgcgtgggtcc tcttggcact cacttggcac acctctgctt acgggccaga ccagcgagcc caaaaagaag gggacattat ccttgggggg ctctttccta ttcatatttg agtagcagct aaagatcaag atctcaaatc aaggccggag tctgtggaat gtatcaggta taatttcctt ggggttctgct ggttacaggc tatgatattt gccatagagg agataaacag cagcccagcc ctcttccca acctgacgct gggatcacag atatttgaca cttgcaaac cgtttcttaag gccttggag ccacctgag ttttgttgc caaaacaaa ttgattcttt gaaccttgat gagtcttga actgctcaga gcacattccc</p>	Homo sapiens

tctacgattg ctgtggtggg agcaactggc tcaggcgtct ccaaggcaggt ggcaaatctg
ctggggctct tctacattcc ccaggtcagt tatgctctct ccagcagact cctcagcaac
aagaatcaat tcaagtcttt cctccgaacc atocccaatg atgagcacca ggcactgccc
atggcagaca tcatcgagta ttcccgctgg aactgggtgg gcaaatatgc agctgatgac
gactatgggc ggccggggat tgagaaattc cgagaggaag ctgaggaag ggatatctgc
atcgacttca gtgaactcat ctccagatc atgatgaggg aagagatcca gcatgtggtta
gaggtgattc aaaattccac ggccaaagt cctgtggttt ttccagtggtg ccagatctt
gagccctca tcaaggagat tgtccggcgc aatatcacgg gcaagatctg gctggccacg
gagccctggg ccagctctc cctgacgccc atgctcagt acttccact ggtggcgcc
accattggat tgcctctgaa ggctgggcag atccaggct tccgggaatt cctgaagaag
gtccatccca ggaagtctgt ccacaatggt ttggccaagg agttttggga agaaacattt
aactgccacc tccaagaagg tgcaaaagg cctttacctg tggacacctt tctgagaggt
cacgaagaaa gtggcgacag gtttagcaac agctcgacag ccttccgacc cctctgtaca
gggatgaga acatcagcag gtctcgagacc ccttaccatg attacacgca ttacgggata
tctacaatg tgtacttagc agtctactcc attgcccacg ccttgcaaga tataatacc
tgcttacctg ggagagggt cttcaccaat ggctcctgtg cagacatcaa gaaagttagg
gcgtggcagg tccctgaagca cctacggcat ctaaaactta caaacaatat gggggagcag
gtgaccttg atgagtgtg tgacctggtg gggaactatt ccacatcaa ctggcacctc
tcccagagg atggtccat cgtgtttaag gaagtcgggt attacaacgt ctatgccaa
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gtgccctctt ccaactgcag ccgagactgc ctggcaggga ccaggaaaagg gatcattgag
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acagatgcca gtgctgttaa caagtgtcca gatgacttct ggtccaatga gaaccaccc
tctgcattg ccaaggagat cgagtttctg tcgtggacgg agccctttgg gatcgacac
acctctttg ccgtgctggg catttctctg acagcctttg tgcgtgggtgt gttatcaag
ttccgcaaca caccattgt caaggccacc aaccgagagc tctcctacct cctcctcttc
tccctgctct gctgttctc cagctccctg ttcttcatcg gggagcccca ggactggag
tgccgcctgc gccagccggc ctttggcacc agcttcgtgc tctgcatctc atgcatctg
gtgaaaacca accgtgtcct cctggtgttt gaggccaaga tcccaccag ctccaccgc
aagtgtggg ggctcaacct gcagttcctg ctggttttcc tctgacctt catgcagatt
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gaggtgaga tcatcttcat cacgtgccac gagggctccc tcatggccct gggttctctg
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ctgcccggaga acttcaatga agccaaagt atcaccttca gcatgtcat ctcttctc
gtctggatct ccttcatcc agcctatgcc agcactatg gcaagtgtgt ctctgcccga
gaggtgattg ccactctggc agccagcttt ggcttgctgg cgtgcatctt ctcaacaag
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gcagctcacg ctttcaaggt ggctgcccgg gccacgctgc gccgagcaa cgtctccc
aagcgttcca gcagcttgg aggtccacg ggatccacc cctcctctc catcagcagc
aagagcaaca gcgaagacc attccacag ccgagaggc agaagcagca gcagccgtg
gccttaacc agcaagagca gcagcagcag ccctgacc tcccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	<p> cagcagcgc ccagatgcaa gcagaaggtc atctttggca gcggaacggt cacccttctca ctgagctttg atgagcctca gaagaacgcc atggcccacg ggaattcttac gcaccagaac tccttgaggg ccagaaaaag cagcgatacg ctgacccgac accagccatt actcccgtg cagtgcgggg aaacggactt agatctgacc gtccaggaaa caggtctgca aggacctgtg ggtggagacc agcgccaga ggtggaggac cctgaagagt tgcctccagc acttgtagtg tcagttcac agagctttgt catcagtggt ggaggacgca ctgttacaga aaacgtagtg aattcataaa atggaaggag aagactgggc tagggagaat gcagagaggt ttcttggggg ccagggatg aggaatgcc ccagactcct ttcctctgag gaagaaggga taatagacac atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccatgttccc ttt </p>	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	<p> gagcagcgc ccagatgcaa gcagaaggtc atctttggca gcggaacggt cacccttctca ctgagctttg atgagcctca gaagaacgcc atggcccacg ggaattcttac gcaccagaac tccttgaggg ccagaaaaag cagcgatacg ctgacccgac accagccatt actcccgtg cagtgcgggg aaacggactt agatctgacc gtccaggaaa caggtctgca aggacctgtg ggtggagacc agcgccaga ggtggaggac cctgaagagt tgcctccagc acttgtagtg tcagttcac agagctttgt catcagtggt ggaggacgca ctgttacaga aaacgtagtg aattcataaa atggaaggag aagactgggc tagggagaat gcagagaggt ttcttggggg ccagggatg aggaatgcc ccagactcct ttcctctgag gaagaaggga taatagacac atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccatgttccc ttt </p>	Homo sapiens

120	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	caactttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tggtctgcgg atcctcccat tgggtgtgct tggggtcacc tttgtcctcg gggctcctggg caatgggctt gtgactcggg tggctggatt ccggtatgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttgcacggcc acattaccat tcctcattgt ctccatggcc atgggagaaa atggccctt ttgctgggtc ctgtgtaagt taattcacat cgtggtggac atcaacctc ctgactctt ttggaagtgt cttctctggt ggtttcattg cactggaccg ctgcatttgt gtcctgcac cagtcctggc ccagaaccac cgcactgtga gtctggccat gaaggtgac gtcggacctt ggattcttgc caaatgggga cacatactgt acttcaact ttgcactcctg tttgactaca gtaactatc cctgagagaga ggtgaaggt ggcattacc atgtgacag ccagagggat ggttggcacc cctgagagaga ggtgaaggt ggcattacc atgtgacag ccagagggat tatccgggtt gtcattggct ttagcttgc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaggggcat gattaaatcc agccgtccct tacgggtccct cactgctgtg ttgcttctt tcttcatctg ttggtttccc ttccaactgg ttgcccttct gggaccctgc ttgctcaaa agatgttgt ctatggcaga taaaaatca ttgacatcct ggttaaccca acgactccc ttgcttctt caacagctgc ctcaaccca tgcctttacgt ctttgtgggc caagacttcc gagagagact gatccactcc ctgccacca gtctggagag ggccctgtct gaggactcag cccaactaa tgacacggct gcaattctg cttcacctcc tgacagagact gagttacagg caatgtgagg atggggtcag ggatattttg agttctgttc atcctaccct aatgccagt ccagcttcat ctacccttga gtcataatga ggcattcaag gatgcacagc tcaagtattt attcaggaaa aatgcttttg tgcctctgat ttggggctaa gaaatagaca gtcaggctac taaaatatta ttgttttttg acttctgctt ataccctggg gtaagtggag ttgggaaaata caagaagaga aagaccagtg gggatttga agacttagat gagatagcg ataaagggg gaagacttta aagataaaag taaaatgttt gctgtaggt tttttagct attaaaaaa atcagattat ggaagttttc ttctattttt agttgtctaa gagttttctg tttcttttc ttacatcatg agtggacttt gcattttatc aaatgcattt tctacatgta ttaagatggt catattatct tcttctttt atgtaaatca ttataaataa tgttcattaa gttctgaatg ttaaaactact ctggaattcc tggaaataaac cacacttagt cctgatgtac ttataactg ttataatatt tatatctcac aggaattggt tagaatttct gtgtttatgt ttataactg ttataactg ttataactg ttataactg ttataactg aaaataaagg acaaaagaaa acttgtaagt gtcctgaaa aggaattgag aagtaattcc tctgattctg ttttctggtg ttatactttt attaaatatt cagaaaaatt c tctgattctg ttttctggtg ttatactttt attaaatatt cagaaaaatt c	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	caactttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tggtctgcgg atcctcccat tgggtgtgct tggggtcacc tttgtcctcg gggctcctggg caatgggctt gtgactcggg tggctggatt ccggtatgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttgcacggcc acattaccat tcctcattgt ctccatggcc atgggagaaa atggccctt ttgctgggtc ctgtgtaagt taattcacat cgtggtggac atcaacctc ctgactctt ttggaagtgt cttctctggt ggtttcattg cactggaccg ctgcatttgt gtcctgcac cagtcctggc ccagaaccac cgcactgtga gtctggccat gaaggtgac gtcggacctt ggattcttgc caaatgggga cacatactgt acttcaact ttgcactcctg tttgactaca gtaactatc cctgagagaga ggtgaaggt ggcattacc atgtgacag ccagagggat ggttggcacc cctgagagaga ggtgaaggt ggcattacc atgtgacag ccagagggat tatccgggtt gtcattggct ttagcttgc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaggggcat gattaaatcc agccgtccct tacgggtccct cactgctgtg ttgcttctt tcttcatctg ttggtttccc ttccaactgg ttgcccttct gggaccctgc ttgctcaaa agatgttgt ctatggcaga taaaaatca ttgacatcct ggttaaccca acgactccc ttgcttctt caacagctgc ctcaaccca tgcctttacgt ctttgtgggc caagacttcc gagagagact gatccactcc ctgccacca gtctggagag ggccctgtct gaggactcag cccaactaa tgacacggct gcaattctg cttcacctcc tgacagagact gagttacagg caatgtgagg atggggtcag ggatattttg agttctgttc atcctaccct aatgccagt ccagcttcat ctacccttga gtcataatga ggcattcaag gatgcacagc tcaagtattt attcaggaaa aatgcttttg tgcctctgat ttggggctaa gaaatagaca gtcaggctac taaaatatta ttgttttttg acttctgctt ataccctggg gtaagtggag ttgggaaaata caagaagaga aagaccagtg gggatttga agacttagat gagatagcg ataaagggg gaagacttta aagataaaag taaaatgttt gctgtaggt tttttagct attaaaaaa atcagattat ggaagttttc ttctattttt agttgtctaa gagttttctg tttcttttc ttacatcatg agtggacttt gcattttatc aaatgcattt tctacatgta ttaagatggt catattatct tcttctttt atgtaaatca ttataaataa tgttcattaa gttctgaatg ttaaaactact ctggaattcc tggaaataaac cacacttagt cctgatgtac ttataactg ttataatatt tatatctcac aggaattggt tagaatttct gtgtttatgt ttataactg ttataactg ttataactg ttataactg ttataactg aaaataaagg acaaaagaaa acttgtaagt gtcctgaaa aggaattgag aagtaattcc tctgattctg ttttctggtg ttatactttt attaaatatt cagaaaaatt c tctgattctg ttttctggtg ttatactttt attaaatatt cagaaaaatt c	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cagatcatcc aaaaaggtgc attttcagga ttgggggacc tgagaaaaat agagatctct cagaatgatg tcttgaggt gatagagga gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaggg caacaacctg ctctacatca cccctgaggc ctccagaac cttcccaacc ttcaatatct gttaatatcc aacacaggtt ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta ctgacagata aagataaacat aaacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggctgaat aagaatggga ttcaagaat acacaactgt gcattcaatg gaaccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgcctaag atgtttcca cggagcctct ggaccagtca tttagatat ttcaagaaca aggatccatt cctgcctag ctatggctta gaaaatctta agaagctgag gccaggtcg acttacaact taaaaagct gctactctg gaaaagcttg tgcctctcat ggaagccagc ctacactatc ccagccattg ctgtgccttt gcaaaactga gacggcaaat ctctgagctt catccaattt gcaacaatc tattttaagg caagaagtgg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcagct acagcagagg atttgacatg acgtacatg agttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtccctcct aagccagatg cattcaacc atgtgaagat atcatgggtt acaacatcct cagagtcctg atatggttta tcagcatcct ggccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat ctctgcatg gaattacat gctgctcatt gcatcagttg atatccatc caagagccaa tatcacaact atgccattga ctggcaaat gggagcaggt gtgatgctg gggcttttc actgtctttg ccagtgagct gtcagctcac actctgacag ctatcacctt ggaagatgg cataccatca cgcattgccat gcagctggac tgcaaggtgc agtcctgcca tcttgccatg gtcctgctga tgggtggat ttttgccttt gcagctgcc tctttcccat ctttgccatc agcagctaca tgaagtgag catctgctg cccatggata ttgacagccc ttgtcacag ctgtatgtca tgtccctct tgtgtcaat gtcctggcct ttgtggctcat ctgtggctg tatatccaca tctacctcac agtgcggaac cccaacatcg tgtcctctc tagtgacacc aggatcgcca agcgcattggc catgctcatc ttcactgact tctctgcat ggcacctt tctttctttg ccatttctgc ctccctcaag gtgcccctca tcaactgtgc caagcaaa atctgtctgg ttctgtttca ccccatcaac tctgtgcca acccttctc ctatgccatc ttaccacaaa actttcgag agatttcttc attctgtga gcaagtgtg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcaccactg tccacaacac ccattccaag atggccact gctcttcagc tccagagtc accagtgggt ccacttacat actgtccct ctaagtcatt tagcccaaaa ctaaaacaca atgtgaaaaat gtatctgagt attgaaatg aattcagtc ttgcctttga aggtatgtc acaaggagct gacagtgtt ctacacattt catctaattt aatatctctg gcatacctt aaggtaaaat ggtcaggaa tattaatcc atgtgataca ttaggaagct gaattattag taacaacaat aataataaaa gaatgcaata ctgtaaaaa gcggcccgga att </p>	Homo sapiens
				<p> MALILVSLA FLSIGSGCHH RICHCSNRVF LCQESKVTET PSDLPRAIE LRFVLTKLRV P IQKAFSGFG DLEKIEISQN DVLEVEADV FSNLPKLHEI RIEKANNLLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNIHITI ERNSFVGLSF ESIVLWLKN GIQEIHNCAP NGQLDAVN L SDNNLEELP NDVPHGASGP VILDISRTI HSLPSYGLE N LKKLRARSTY NLKKLPLEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE </p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p> VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFDYDLNE VDVTCSPKP DAFNPCEIM GYNILRVLIW FISILAITGN IIVLVILTTS QYKLTVPREFL MCNLAFAADLC IGIYLLLIAS VDIHTKSQYH NYAIDWQTGA GCDAAGFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VQLRHAASVM VMGWIFAFAA ALFFIFGISS YMKVSICLPM DIDSPLSQLY VMSLLVLNL AFVVICGCIY HIYLTVRNPN IVSSSSDTRI AKRMAMLIFT DFLCMAPISF FAISASLKVP LITVSKAKIL LVLEHPINSC ANPFLYAIFT KNFRDRFFIL LSKCGCYEMQ AQIYRTETSS TVNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN </p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p> gccaaactcg tgggtgctcg ggtgaatc cagcgcaaga ccacaggcta tgacacgcac A tgcatactc tgaactggc catcgccgac ctgtgggttg tctcaccat cccagctcgg gtggtcagtc tctgagcaga caaccagtgg cccatgggag agctcacgtg caaagtcaca caccatctc tctccatcaa cctcttcagc agcatcttct tctcacgtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggtg cgccgtgctg tctgcatcct ggtgtggctg ctggccttct cgtgtctct gcctgacacc tactacctga agaccgtcac gtctgctgcc acaaatgaga cctactgccg gtccctctac cccgagcaca gcatacagga gtggtgctgc ggcataggag tggctcctcg tgccttgggc ttggccgtc cctctccat tatcgtctgc tctacttcc tctggccag agccatctcg ggtccagtg accagagaa gcacagcgc cggaagatca tctctccta cgtggtggtc tctctgtct gctggttgc ctaccagt gctggtctgc tggacatctt ctccatctg cactacatcc ctttaccctg ccggtggag cagccctct tcaaggccct gcagtgcaca cagtgcctg cgtggtgca ctgctgcgc aacctgtcc tctacagct catcaatcgc aactacaggt acgagctgat gaaggcctc atctcaagt actcggcca aacaggctc accaagctca tgcgtgctc cagagctcga gagcggagt actcgcctt ggagcagagc accaaatgat ctgcccctga gaggctctg gacgggttta ctgtttttg aacagggtga tgggccctat ggtttcttag agcaagcaa agtagcttcg ggtcttgat cttgagtaga gtgaagagg gagcacgtgc cccctgcac cattctctc tctcttgat gacgcagctg tcatttggct gtgctgctg acagtcttc acaggttgc aacaggcaga gctgctgcg acagcagtc tgtgctcag agccagctga ggacagcctt gcctggact ctgtaagata ggattttctg tgttccctga atttttata tgggtgattg tatttaaat ttaagacttt attttctcac tattggtgta cctataaat gtatttgaaa gttataata ttttaatat tgtttgggag gcatagtct gacataat cagagtgtg tagttttaag gttagcgtga cttcagttt tgactaagga tgacataat tgttagctgt ttgaaaaa tatataata aatataataa tatatgccag tcttggctga aatgttttat ttaccatagt ttatatctg tgtggtggtt tgtaccggca, cgggatatgg aacgaaaaact gctttgtaac gcagtttctg acattaatag tattgtaag ttacattta aaataaaca aaaaactgtc tggactgcaa atctgcacac acaacgaaca gttgcatttc agagagttct ctcaatttgt aagttatttt tttttaataa agatttttgt ttcctaaaaa aaaaaaaaaa aaaaaa MDLHLFDYAE PGNFSDISWP CNSSDCIVVD TVMCPNMPNK SVLLYTLSEI YIFIVIGMI P ANSVVWVNI QAKTGYDTH CYILNLAIAD LMVLTIPVW VVSLVQHNQW PMGELTCKVT HLIFSINLFS GIFFLTMSV DRYLSITYFT NTPSSRKKM RVVCILVWL LAFVSLPDT YYLKTVTSAS NNETYCRSFY PEHSIKEWLI GMELVSVVLG FAVPFSIAV FYFLIARAIS ASSDQEKHSS RKIIFSYYV FLVCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT </p>	Homo sapiens

125	1762	Galanin Receptor GalR1	NM_001480	AK	QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSAKTGL TKLIDASRVS ETEYSALEQN	Homo sapiens
					atccccgtag aatcgcgtcca gtctctgtctc gcgcaccgtg acttctaagg ggcgcggtatt A	
					tcagccgagc tgttttcgcc tctcagttgc agcagagaag ccctggcac ccgactctat	
					ccaccaccag gaagcctccc aaaagagctc tgcacctgtg gcgactcgg aatccctgga	
					aaagccggga ggaagtcgga ggcccgagcc cactggggag gtggcgctgg gcgcgcgga	
					tgccgcgga gccctctctg caggagccgc acagtgcact gctgcgcgt ggccagtgcg	
					gggaagcgcc gcgggaagga gcggctccga gcaacaggtg cagcacgcag ccgctccggg	
					agccaggga aaccgcggc gaagatctgg agcggtaagg cgaagagaa ggctttcca	
					cctgcgcgc tgcaagcgcc ggatccctct tcccaggctc cgtggtcgcg cagcgggcgg	
					aggcgcgcgg gcaggggacc ccagtgcctc cgagatcac gtcccttccc gagaaggctc	
					agctccgggc tcccgaaacc accctctctc agaaggtcgc ggcgaaaga cggcgccacc	
					aggcacggcc accggatccc cgtcccgct ggctgcgcgc tggggggaag ctcagactcc	
					taaaactgca ctctccgtgc ttgcgccgg gacctctgc caccctggc gctgctatc	
					ccgcccctcc tccccgcgcg ccccgccgct gcggggaca gcccgcggg ccatggagct	
					ggcggtcggg aacctcagcg agggcaacgc gagctggccg gagcccccg ccccgagcc	
					cgggcccgtg ttccggcatcg gcgtggagaa ctctgtcac gtggtggtgt tcggcctgat	
					cttcgcgctg gggtgctgg gcaacagcct agtgatcac gtgctggcg gcagcaagcc	
					gggcaagccg cggagcacca ccaacctgtt catcctaac ctgagcatcg ccgacctggc	
					ctacctgtc ttctgcattc ccttcaggc cactgtgtac gcgtgccc cctgggtgct	
					ggcgccctc gcgcgcatgt ccgtggaccg ctacgtggcc ctggtcagc cgcggcgctc	
					ctctccctc aggggtgccc gcaacgcgt gctgggcgtg ggctgcactt ggcgctgtc	
					cattgccatg gcctgcgcg ggccctacca ccagggcctc ttccaccgc gcgccagcaa	
					ccagacctc tgctgggagc agtggcccg cctcgccac aagaaggcct acgtgggtg	
					caacttcgtc ttgggtacc ttgtgcgct ctgtctcatc tgcttctgt atgccaaggt	
					ccttaatcac ttgcataaaa agttgaagaa catgtcaaa agtctgaag catccaagaa	
					aaagactgca cagacagttc tgggtgtgtt tgggtgtttt ggaatctctt ggctgcgca	
					ccacatcac catctctggg ctgagtttg agttttccc ctgacgcgg ctctctctt	
					cttcagaatc accgcccact gcctggcgta cagcaattcc tccgtgaatc ctatcattta	
					tgcatctctc tctgaaaaat tcagggaagg ctataaaca gtgttcaagt gtcacattcg	
					caaagattca cacctgagtg atactaaga aaataaaagt cgaatagaca cccaccatc	
					aaccaattgt actcatgtgt gataaaagt agagtatcct tatggttgag ttccatata	
					agtggaccag acacagaac aaacagaatg agctagtaag cgatgctga acttggtatc	
					ttacaagaa ttcaagtcgt tttaattaaa tcccacgtgt gtaaaaaagt actttgatcc	
					atttaggaaa ttccctaggtc tagtgagaat tatttttcaa tttttttta gtctaaatt	
					atgtttcaga aacaaaagac aatgctgtac agttttattc ctcttcagac atgaaaggga	
					acatatatat tccatatata tgttcaactc gttagattt gtgaactggc ccatcaatat	
					ggtcagggaat atttgacgtc tacattttta agccaattta tttagaaaa aaatttgagc	
					tttaattctt taatttttaag agaagtaata ttgtgaacta tgtattttta aatatgatca	
					tggacacaca atgatgaatt ttttgccat ttacatagac atatctatta agtggaaga	

126	1762	Galanin Receptor GalR1	NP_001471.1	agggtttctg aagtctgttt gcacaggtgg catttgcttc caattgtagc tagcgacacg agctttggaa gcctgtcatt atgagataca gtcgggtttac ctacaggagtc aattcagtg tgtactggg accctggatg cagtagtagg cactgttgat tcaattttat cctgtgaaac tggtttata gaggtaacaa acagagtgca gagaccactg tcttaacagt ggaagatgca ataaagtttt tgagataaaa actggatttt gaaattttac attagactct gacaaaagtt ttcaattttgc cttgaatgga acctactaaa acagagatg aaaaaaaatc agcgaggttg atgtagataa taattttctat gggaccaaag atagacaga attcagtaag tcacatgaag taatgggtcat gcctgtacat aaagcatatt tcatgtttga tttagatgac attcaaaaa aatcatggga ctgaatatac ctgggggtat ctatcttgta caaatgcatg ctttttcatt aaatttgtaa tgatgtttaa tgaacatttc caccacacat tatttctctt aaaaatgta atttgggggtt aaacacatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtgtg tttaacaatga gaaaatggca tgaataattt aaattgtctt gtatcg SKPKPRSTT NLFILNLSIA DLAYLLEFCIP FOATVVALPT WVLGAFICKE IHYFTVSML VSIFTLAAMS VDRYVAIVHS RRSSLRVSR NALLGVGCIW ALSIAMASPV AYHQGLEHPR ASNQTFCEQ WDPDRHKRAY VVCTFVGYL LPLLICFCY AKVLNHLHKK LKNMSKKSEA SKKTAQTVL VVVVFGISW LPHHIHLWA EFGVFPPLTPA SFLFRITAHK LAYNSSVNP IIYAFLENF RKAYQVFKC HIRKDSHLSL TKNKSRIDT PPSTNCTHV	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	ggcagcggtg gcaggggctg caggagcaag tgaccaggag caggactggg gacaggcctg A atgcgccctg caccgaaccag acccttcgcc gccttcacga tgactacctc tccgatcctg cagctgctgc tgcggctctc actgtgcggg ctgtgcttcc agaggcgga gacaggctct aagggggcaga cggcggggga gctgtaccag cgttgggaac ggtaccgcaag ggagtgccag gagaccttgg cagcgcgga accgccttca ggccctccct gtaccgggtc cctcgatg tacgtctgct gggactatgc tgcacccaat gccactgcc gtgcgtcctg cccctggtag ctgccctggc accaccatgt ggctgcaggt ttctgctctcc gccagtgtgg cagtgtggc caatggggac ttggagaga ccatacacia tgtgagaacc cagagaagaa tgaggccttt ctggacaaa ggtcatctt ggagcggttg caggtcatgt acactgtcgg ctactccctg tctctcgcca cactgctgct agccctgctc atcttgagt ttgtcaggcg gctacattgc actagaaact ataccacat caacctgttc acgtcttcca tgctgcgagc tgcggccatt ctcagccgag accgtctgct acctcgacct ggccctacc ttggggacca ggccttgcg ctgtggaacc aggcctcgc tgcctgcgc agggccaca tctgaccca gtactgcgtg ggtgccaact acactggct gctggtggag ggcgtctacc tgcacagtct cctggtgctc gtgggaggt cagaggagg ccacttcgc tactactgc tccctggctg gggggccccc gcgttttctg tcatccctg ggtgatcgtc aggtactgt acgagaacac gcagtgtg gagcgcaacg aagtcaaggc catttgggtg attatacga ccccatcct catgaccatc ttgattaatt tctcatatt tatccgcat ctggcattc tctgtccaa gctgaggaca cggcaaatgc gctgcggga ttaccggctg aggtcggtc gtccacgct gacgtggtg ccccgtctg gtgtccacga ggtggtgtt gctcccgta cagaggaca ggcggggg gcccgtcgt tgcacaagt cggctttgag atcttctca gctcctcca gggcttctg gtcagcgtcc tctactgctt catcaacaag gagggtcagt cggagatccg cctgtggctg caccactgcc gcctgcgag cagcctggc gaggagcaac gccagctccc ggagcgcc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p>ttccggggccc tgcctcccg ctcgggccc ggcgaggtcc ccaccagccg cggcttgctcc</p> <p>tccgggaccc tccagggccc tgggaatgag gccagccggg agttggaaaag ttactgctag</p> <p>ggggcgggat ccccggtgtc ttccagttag catggattta ttgagtcca actcggtgcc</p> <p>agggccagta cggagagcgc tggggaatg gtgaaggaaa cagaaaaag gtccctgcc</p> <p>ttctggagat gacaaactgag tggggaatg agaccgtgaa cacaaacat caagtccac</p> <p>acacgtatg aaatggttat gaagggaagc gagaaagggg cctagggtgg tctgggagcg</p> <p>gtctccaagg agtgacact taagccatcc ccgaagagg tgaagagat cactttgggg</p> <p>agagctggag aacaggattc tagcggaag cgatagcata ggcaaggcc cttgggcagg</p> <p>aaggcgtca gcctggctg gagtgaatt aagtcagagc caacaggtt ggagagaca</p> <p>gagaagtgg cagggcacc caagttgga ttctatttca ggtgcattgg agattcttag</p> <p>gagtgctct tgggggtaat attttattt ttaaaaaatg aggat</p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p>CNGSFDMYC WDYAAPNATA RASCPWYLPW HHVAAAEVL RQCSDGQWG LWRDHTQCEN</p> <p>PEKNEAFLDQ RLILRLQVM YTVGYSLSLA TLLALLLIS LFRRLLHCTRN YIHINLFTSF</p> <p>MLRAAAILSR DRLLPFGPY LGDQALALWN QALAACRTAQ IVTQYCVGAN YTWLLVEGVY</p> <p>LHSLILVGG SEEGHFRYLY LLGWGAPALF VIPWVIVRYL YENTQCWERN EVKAIWIIIR</p> <p>TPILMTILIN FLIFIRILGI LLSKLRTQM RCRDYRLRLA RSTLTLPVLL GVHEVVFAPV</p> <p>TEEQARGALR FAKLGFELF SSFQGLFVSV LYCFINKEVQ SEIRRGWHHC RLRRSLGEEQ</p> <p>RQLPERAFRA LPSGSGPGEV PTERGLSSGT LPSPGNEASR ELESYC</p> <p>ccagattcta aatatcagga aagacgctgt gggaaaaatag caggccaaaa gttcttagta A</p> <p>aactgcagcc agggagactc agactagaat ggaggtagaa agaactgatg cagagtgggt</p> <p>ttaattctaa gctttttgtt ggtaagttt tgttgttgtt aacttattga atttagagt</p> <p>gtattgact ggtcatgtga aagccagagc agcaccagtgt tcaaaaatagt gacagagagt</p> <p>tttgaatacc atagttagta tatatgtact cagagtattt ttattaaaga aggcaagag</p> <p>ccggcatag atcttatct catcttact cggttgcaaa atcaatagt aagaaatagc</p> <p>atctaaggga acttttaggt gggaaaaaaa atctagagat ggctctaaat gactgtttcc</p> <p>ttctgaactt ggaggtggac catttcatgc actgcaacat ctccagtcac agtgcggatc</p> <p>tcccgtgaa cgatgactgg tcccaccccg ggtatcctcta tgtcatccct gcagtttatg</p> <p>gggttatcat tctgataggc ctcatggca acatcacttt gatcaagatc ttctgtacag</p> <p>tcaagtccat acgagtgtct ccaaacctgt tcaattccag tctggcttg ggagacctgc</p> <p>tcctctaata aacgtgtgct ccagtggtg cagcaggtga cctggctgac agatggctat</p> <p>ttggcaggat tggctgcaaa ctgatccct ttatacagct tacctctgtt ggggtgtctg</p> <p>tcttcacact caggcgctc tggcgagaca gatacaagc cattgtcccg ccaatggata</p> <p>tccaggctc ccatgcccgt atgaagatct gctcaaaagc cgcctttatc tggatcatct</p> <p>ccatgtgtct ggcatttcca gaggccgtgt ttttgcact ccacccctc catgaggaaa</p> <p>gcaccaacca gaccttcatt agctgtgccc cataccaca ctctaataag cttcacccca</p> <p>aaatccattc tatggcttcc tttctggtct tctacgtcat ccactgtcg atcatctctg</p> <p>tttactacta cttcattgct aaaaatttga tccagagtgc ttacaattct cccgtggaag</p> <p>ggaatataca tgtcaagaag cagattgaat cccggaagcg acttgccaag acagtgtctg</p> <p>tgttttgtgg cctgtcgcc ttctgtggc tccccaatca tgtcatctac ctgtaccgt</p> <p>cctaccacta ctctgaggtg gacacctcca tgcaccagc atctgtgccc</p>	Homo sapiens

130	1813	Gastrin-Releasing Peptide Receptor	NP_005305.1	gctctcctggc cttcaaccaac tctcgctgta acccctttgc cctctacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gctggcctg atcatccgt ctcacagcac tgaaggagt acaacctgca tgacctcct caagagtacc aacctcctcg tggccacctt tagctcatc atggaacaac gctgtacga gcgtatgtc tagattgacc cttgattttg cccctcagc gacggtttt ctttatgct agacaggaac ccttgcatcc attggttgtt ctgtgccctc caaagagcct tcagaatgct cctgagtgtt gtaggtggg gtggggaggc ccaaatgatg gatcaccatt atatttgaa agaagc MALINDCFLN LEVDHFMHCN ISSHADLPV NDDWSHPGIL YVIPAVYGV IILIGNIT P LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ LTSVGVSFT LTALSADRYK AIVRPMDIQA SHALMKICLK AAFIWIISML LAIPEAVFSD LHPFHEESTN QTIFISCAPYP HSNEHPKIH SMASFLVFYV IPLSIISVY YFIAKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVEF GLPAFCWLPN HVIYLYRSYH YSEVDTSMH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KOENTQLLCC QPGLIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV	Homo sapiens
131	1814	Cholecystokini Receptor	NM_000731	atggagctgc tcaagctgaa ccgagcgtg cagggaaaccg gaccggggcc gggggcttcc A ctgtgccgcc cggggcgcc tctcctcaac agcagcagtg tgggeaacct cagctgcgag ccccctgca ttcggcgagc cgggacacga gaattggagc tggccattag aatcactctt tacgcagtga tcttctctgt gagcgttgga ggaatatgc tcatcatcgt ggtcctggga ctgagccgcc gctgagagc tgtcaccaat gccttctctc tctcactggc agtcagcgac ctcctgctgg ctgtggcctg catgcccttc acctcctcgc ccaatctcat gggcacattc atctttggca ccgtcatctg caaggcggtt tctcactca tgggggtgtc tgtgagtgtg tccacgctaa gctcgtggc catcgcactg gacggttaca gcgccatctg ccgaccactg caggcacgag tgtggcagac gcgtccccc gcgtacacct tcatctagc cactgggctg ctgtccggac tactcatggt gccctacccc ggtacacctg tctgcaacc agtggggcct cgtgtgctgc agtgcgtgca tgcctggccc agtgcgcggg tccgccagac ctggtccgta ctgtgcttc tgcctctgtt cttcatcccg ggtgtgtgta tggccgtggc ctacgggctt atctctcgcg agctctactt agggcttcgc tttgacggcg acagtgcag cgacagccaa agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaaagg gcgttgccgg cctgagactg gcgcggttg cgaagacagc gatggctgct acgtgcaact tccacgttcc cggcctgccc tggagctgac ggcgctgacg gctccaggcg cgggatccgg ctcccggccc acccaggcca agctgctggc taagaagcgc gtggtgcgaa tgttgctggt gatcgttgtg cttttttttc tgtgttggtt gccagtttat agtgcaaca cgtggcgccg ctttgatggc ccgggtgcac accgagcact ctccgggtgct cctatctcct tcattcactt gctgagctac gcctcggcct gtgtcaacc cctggtctac tgcctcatgc accgtcgtt tcgccaggcc tgccctggaaa ctgtgcctcg ctgctgcccc cggcctccac gactcgccc cagggtctctt cccgatgagg acctccccc tccctccatt gcttcgctgt ccaggcttag ctacaccacc atcagcacac tgggccctgg ctgaggagta gaggggccgt gggggttgag gcaggggcaaa tgacatgcac tgaccttcc agacatagaa acaactgaca caggaaacca acacccaaa catggactaa ccccaacgac aggaagaggt agcttacctg acacaagagg aataagaatg gagcagtaca tgggaaagga ggcatggctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgaga gacacagcgt ccctagcagt gaactattc	Homo sapiens

132	1814	Cholecystoki nin B Receptor	NM_000722.1	<p> taccacagtgg gaactctgac aagggtgac ctgcctctca cacacataga ttaattggcac tgattgtttt agagactatg gagcctggca caggactgac tctgggatgc tcttagtttg acctcacagt gaccttccc aatcagcact gaaataacca tcaggcctaa tctcatacct ctgaccaaca ggctgttctg cactgaaaag gtcttctcat ctttccagt taaggaccgt ggccctgccc tctccttctt tcccaaaactg ttcaagaaat aataaattgt ttggcttctt cctgaaaaaa aaaaaaaaaa aaaaaaaaaa aggaatttc MEILLKLRSV QGTGPGGAS LCRPGAPLN SSSVGNLSCE PPRINGAGTR ELELAIRITL P YAVIFLMSVG GNMLIIVLG LSRLRTVN AFLLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTVICKAV SYLMGVSVS STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQVGP RVLCQVHRWP SARVRQTWSV LLLLLLFFIP GVMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALLETALT APGPGSGSRP TQAKLLAKKR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRALSGA PISFIHLSY ASACVNPLVY CEMHRRFRQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggaatctggca gcgcgcgaa gacgagcggg caccggcgcc cgaccggagc gcgcccagag A gacggcgggg agccaagcgg acccccgagc agcgccgccc gggccctgag gctcaaaggg gcaagcttcag gggaggacac cccactggcc aggaacccc aggtctgtct gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc cattgagccc cctgccagat gtggaggca gctagctgcc cagaggcatg cccccctgcc agccacagcg accctgtctg ctgttctgctg gtctgtggc ctgccagcca caggtcccc cgcctcaggt gatggacttc ctgtttgaga agtggaagct ctacggtgac cagtgtaacc acaacctgag ctgtctgccc cctcccacgg agctgggtgtg caacagaac ttcgacaagt attcctgtctg gcggacacc cccgcccaata ccacggccaa catctcctgc cctcgtacc tgccttgcca ccacaaagt caacaccgt tcgtgttcaa gcatgcccgg cccgacggtc agtgggtgcg tggaaccccg gggcagcctt ggcgtgatgc ctcccagtc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatgta cagcagcttc cagtgatgt acacagtggg ctacagcctg tccctggggg cctgtctct ccatccacgc gaatctgttt gctgaaagc gctgcactgc accgcgaatg atgggtgct caggacccgc tacagccaga aaattggcga cagctccgtg ctggtcattg ggtcagacct ggtcagtgta tggagcgggtg gctggccgc cgacctcagt gtcagacact ggtcagtgta tggagcgggtg gctggctgcc gctggccgc ggtgttcattg caatatggca tctgtggcaa ctactgctgg ctgctggtgg agggcctgta cctgcacaa cctgctggcc tggccacct cccgagagag agcttcttca gcctctacct gggeatggc tggggtgccc ccatgctgtt cgtcgtcccc tgggcagtg tcaagtgtct gttcgagaac gtccagtgct ggaacagcaa tgaacaacatg ggcttctggt ggaacctgcy gttccccgtc ttcctggcca tctgatcaa cttcttcac ttcttcgca tctgttcagct gctcgtggcc aagctgcggg caccgagat gcaccacaca gactacaaat tccggctggc caagtccacg ctgacccctca tccctctgct gggcgtccac gaagtgtct ttgccttctg gacggacgag caccgccagg gacccctgcy cctcgtccaa acccttctct cagctccttc caggccctgc tgggtgctgt cctctactgc ttctcaaca aggaggtgca gtcggagctg cggcggcgtt ggcacgcgtg ggcctgggc aaagtgtctat gggaggagcg gaacaccagc aaccacagg cctcatcttc gcccgccac gccctccca gcaaggagct </p>	Homo sapiens

134	1834	Glucagon Receptor	NP_000151.1	gagatttggg aggggtgggtg gcagccagga ttcatctgag gagaccccc ttgctgggtgg cctccctaga ttggctgaga gcccttctg aacctgctg ggacccccagc taggctgga ctctggcacc cagaggcgtc gctggacaac ccagaactgg acgccccagc gagctgggg gcgggggagc caacagcagc cccacacctac ccccccacc cagtgtggct gctgcgaga ttgggacctc tctccctgca cctgcttgt cctgctgca gagtgagca gaggagcca ggcgggaggt gggggctgtg cctggaactg cgtgacagt tcccacgta tgcggcacg tcccatgtgc atggaatgt cctccaacaa taaagagctc aagtgtcac cgtg MPPCQPQRPL LLILLACQ PQVPSAQVMD FLFEKWKLYG DQCHNLSLL PPTELVCNR P TFDKYSCWPD TPANTANIS CPWYLPWHK VQHRFEKRC GPDQWVRGP RGQWRDASQ QMDGEEIEV QKEVAKYSS FQVMYTVGYS LSLGALLAL AILGLSKLH CTRNAIHANL FASFVKASS VIVIDGLRT RYSQKIGDDL SVSTWLSGGA VAGCRVAADF MQYGIVANYC WLLVEGLYLH NLLGLATLPE RSFFSLYGI GWGAPMLFV PMAVVKLFE NVQCWTSNDN MGFWWILRFP VFLAILINF IFVRIVQLLV AKLRARQMH TDYKFRLLKS TLTLPLLV HEVVFATVD EHAQGLRSA KLFEDFLSS FQGLLVAVLY CFLNKEVQSE LRRRWHRWRL GKVLWEERNTHNRRSSSPG HGPPSKELQF GRGGGSDSS AETPLAGGLP RLAESEPF 135	1925	Gonadotropin -Releasing Hormone Receptor	NM_000406	ttggttgctg gtccacttac aacactttt catatttgta tgcctttcca atggttatcc A tgttttgtc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa agccttttga gttctcaga aaaataaatt atcttattca agactgattg cttataagga acttattata gctaataatag taggcacaaat ttttttttga attctctag atgagtcaga acttagtttt gatgtaggta aaaattttat ggtcacaaat ctcaggtgtg agaaaatctc tttccctgat actctatata aatagaggat aaaaatttt caagtctgga agtagtgaga gaagctggta attctggaca tatagtga gtaaaaagg agctcaggta caggactggg ctaagctgct caagattcag gagacagcca gtaacagag agctgagga aataatcacg atatatctaa aacacttctc taaccttctg tggtaacaa gctcctaaag gggctggatg atggttggtt cactttttat caccagcaaa ggttaagata atgtatatag taaatatta gtaaccattt attaaataaa taaatattta agacagata acaagata ataaatgaac caataagaat gcaccatcta agtcaaaaata gccactttta tcttcaacat tgtacctgct ttggctgctg cagaagcaaa cttgttgga ttagacaaat caagctggtg atttaataa ttccaatgta agtcttacc a gtattgatga ataaactatcc agcactcacc atgaaagta aagaagcaac acagaaaaag tctctaagt gttccaat t gaaatgata gataacctat aaaagaacat attcataat t actaacata aacacataata aatgcactta cagcagttac acagtattct ctccaataac tagtttctt gtgattatgt agtataaac agcaactaca atatattgat aattataaaa accaaggcaa taatttaaaa actgattaac cgttttactc taacttaagc atggattgga tcagtaagat tgattataaa atttgaatgc agtcagttg attgattcta atttaagtt ttaattttgt tagaataaat ttaagtga tataattgtc cagtgttcga gtgctcaaa gtgtgtttga aaagaaaaa aaagaatgt ttgagaatgt gttaattcct taagacaatg gattttaatt ggtctgtgtg ttttcat t tcttcattat cattatacat ctgtatgttg gacagaacac taactataaa tagtttttag aaagtgtttt ttgaagttat ttaaatcata atatcatgac tgaattttga attcaaaat aggtgtgac tatccttctt cacttaggaa gagtgtgtg aaagccagac catctgctga ggtgctacag ttacatgtgg cctcagaat gcgtttggcc tgcctgtgtt tagcactctg ttggattacc
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Homo
sapiensHomo
sapiens

136	1925	Gonadotropin NP_000397.1 -Releasing Hormone Receptor	<p> aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg acaaaatttg acatacgtct aaactgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggcttgaa gctctgtcct gggaaaatat ggcaaacagt gcctctcctg aacagataca aaatcactgt tcagccatca acaacagcat cccatgagt cagggaacc tccccactc gcccttgctt ggaagatcc gagtgcggtt tactttcttc cttttctgc tctctgcac ctttaagtct tctttcttg tgaaccttca gaagtggaca cagaagaaag agaaaggaa aagctctca agaagtgaagc tgctcttaaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aagttctca gttatctaaa gcttttctcc atgtatgcc cagccttcat gatggtggtg atcagcctgg accgctccct ggctatcacg aggccctag ctttgaaaag caacagcaaa gtccgacagt ccatggttgg cctggcctgg atcctcagta gtgtcttgc aggaccacag ttatacatct tcaggatgat tcatctagca gacagctctg gacagacaaa agtttctct caatgtgtaa cacactgcag tttttcaaa tgggtgcac agcatcttta taacttttcc accctcagct gcctcttcat catcctctt ttcactatgc gaccccccag aactacaact' gaatcagtc aagaacaata tgacacgggt ccttcatcag gaccccccag actctaaaaa tgacggttgc atttgcact tcatttactg taccagagc acggctgaag gtcctaggaa tttggtattg gtttgatcct gaaatgtaa tctgctggac tccctactat gtcctaggaa tttggtattg gtttgatcct gaaatgtaa acaggttgc agaccagta aatcacttct tctttctctt tgccttttta aacctatgct ttgatccact tatctatgga tattttctct tgtga </p>	Homo sapiens
137	1945	Opsin, green-sensitive	<p> atggcccagc agtgagcct ccaaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcacc accagcagc attcacctac accaacagca actccaccag aggcccttc gaaggcccca attaccacat cgctcccaga tgggtgtacc acctcaccag tgtctggatg atctttgtgg tcattgcac cgttttcaca aatgggcttg tctggcgcc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atctggtga acctgccgt cgctgacctg gcagagaccg tcctgcacc cactatcagc gtttgaacc aggtctatgg ctactctgtg ctgggccacc ctatgtgtgt cctggaggcc tacacgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat tctctgggag agatggatgg tggctctgca gccctttggc aatgtgagat ttgatgcaa gctggccatc gctggcattg ccttctctg gatctgggct gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccc cggcctgaag acttcatgcg gccagacgt gttcagcggc agctcgtacc ccggggtgca gttctacatg attgtctca tggccacctg ctgcatcacc cactcagca tcactgtgct ctgtacctc caagtgtggc tggccatccg agcgttgcca aagagctga atccacccag aaggcagaga aggaagtgc gcgcatggtg tgggtatgg tccctggcatt ctgcttctgc tggggaccat acgcttctt cgcattgctt gctgctgcca accctggcta cccctccac </p>	Homo sapiens

138	1945	Opsin, green-sensitive	NP_000504.1	<p>cctttgatgg ctgcctcgcc ggccttcttt gccaaaagt ccaatatcta caaccctgtt</p> <p>atctatgtct ttatgaaccg gaagtcttoga aactgcatct tgcagctttt cgggaagaag</p> <p>gttgacgatg gctctgaact ctccagcgcc tccaaaacgg aggtctcatc tgtgtcctcg</p> <p>gtatgcctcg catga</p> <p>MAQQWSLQRL AGRHPQDSYE DSTQSSIFY TNSNSTRGPF EGPNYHIAPR WVYHLTSVWM P</p> <p>IFVVIASVFT NGLVLAATMK FKKLRHPLNW ILVNLAVADL AETVIASTIS VVNQVYGYFV</p> <p>LGHPMCYLEG YTVSLCGITG LWSLAIISWE RWMVCKPFG NVRFDAKLAI VGIAFSWIWA</p> <p>AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IVLMTCCIT PLSIIVLCYL</p> <p>QVWLAIKRAVA KQKESSTQ KAEKEVTRMV VVMVLAFCFC WGPYAFFACF AAANPGVPFH</p> <p>PLMAALPAFF AKSATIYNPV IYVFMRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS</p> <p>VSPA</p>	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	<p>atgtggaacg cgacgcccag cgaagagcgg gggttcaacc tcacactggc cgacctggac A</p> <p>tgggatgctt ccccgcccaa cgactcgctg ggcgacgagc tgcctgcagct ctctcccgcg</p> <p>cgcgtgctgg cgggctgcac agccacctgc gtggcactct tegtgtggg tategctggc</p> <p>aacctgtca ccatgtggtt ggtgtgcgc tccgcgagc tgcgcaccac caccaaactc</p> <p>tacctgtcca gcattgctt ctccgatctg ctcaatcttc tctgatgccc cctggacctc</p> <p>gttcgctctt ggcagtaccg gccctggaac ttgcgcgacc tccctgcaa actcttccaa</p> <p>ttcgtcagtg agagctgcac ctacgccacg gtgctcacca tcacagcgt gagcgtcgag</p> <p>cgtactctcg ccatctgctt cccactccgg gccaaagtgg tggtcaccaa ggggcgggtg</p> <p>aagctggtca tctctgctat ctgggcctg gctcttgca gcgcggggcc catcttgctg</p> <p>ctagtgcggg tggagcacga gaacggcacc gacctttggg acaccaacga gtgcgcgcc</p> <p>accgagtgtg cgggtgcctc tggactgtc accgtcatgg tgtgggtgtc cagcatcttc</p> <p>ttcttcttc ctgtctctg tctcacggtc tctcacagtc tcctcggcag gaagctgtgg</p> <p>cgaaggaggc ggcgcgatgc tgtcgtgggt gcctcgtcca gggaccagaa ccacaagcaa</p> <p>accgtgaaaa tgcctgggtg gtctcagcgc gcgctcaggc ttctctcgc gggctcctatc</p> <p>ctctccctgt gccttctccc tctctctga</p> <p>MWNAITPSEEP GFNLTLADLD WDASPGNDSL GDELLQLFPA PLLAGVTATC VALFVVGIAG P</p> <p>LLTLMVVSFR FRELTRTNL YLSSMAFSDL LIFLCMLDL VRLWQYRPWN FGDLLCKLFQ</p> <p>FVSESTYAT VLTITALSVE RYFAICFPLR AKVVVTKGRV KLVIWVAV AFCSAGPIFV</p> <p>LVGVEHNGT DPWDTNECRP TEFAVRSGLL TMVMVSSIF FFLPVFCITV LYSLIGRKLW</p> <p>RRRRGDAVVG ASLRDQNHKQ TVKMLGGSQR ALRLSLAGPI LSLCLLPSL</p>	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	<p>agcagccaag gcttactgag gctggtggag ggaagccactg ctgggctcac catggaccgc A</p> <p>cggatgtggg gggcccaactg ctctctgctg ttgagccctg taccagcgt attgggccac</p> <p>atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtcg ctgtctacaa</p> <p>gcagcagagg agatgccccaa caccacctg ggcctgcctg cgacctggga tgggctgctg</p> <p>tgctggcaa cggcaggctc tggcagatgg gtacacctcc cctgcgccga ttcttctct</p> <p>cacttcagct cagagtcagg ggcctgtgaa cgggattgta ctatcactgg ctggtctgag</p> <p>ctctttccac ctacacctg ggcctgcccc gtgcctctgg agctcctggc tgaggaggaa</p> <p>tcttacttct ccacagtgaa gattatctac accgtggggc atagcatctc tattgtagcc</p> <p>ctcttcgtgg ccatcaccat cctggttgct ctcaggaggc tccactgcc ccggaactac</p> <p>gtccacaccc agctgttccac cacttttacc ctaaggcggg gacgtgtgtt cctgaaggat</p> <p>NP_004113.1</p> <p>MWNAITPSEEP GFNLTLADLD WDASPGNDSL GDELLQLFPA PLLAGVTATC VALFVVGIAG P</p> <p>LLTLMVVSFR FRELTRTNL YLSSMAFSDL LIFLCMLDL VRLWQYRPWN FGDLLCKLFQ</p> <p>FVSESTYAT VLTITALSVE RYFAICFPLR AKVVVTKGRV KLVIWVAV AFCSAGPIFV</p> <p>LVGVEHNGT DPWDTNECRP TEFAVRSGLL TMVMVSSIF FFLPVFCITV LYSLIGRKLW</p> <p>RRRRGDAVVG ASLRDQNHKQ TVKMLGGSQR ALRLSLAGPI LSLCLLPSL</p>	Homo sapiens
141	1954	Growth Hormone-Releasing Hormone Receptor	NM_000823	<p>agcagccaag gcttactgag gctggtggag ggaagccactg ctgggctcac catggaccgc A</p> <p>cggatgtggg gggcccaactg ctctctgctg ttgagccctg taccagcgt attgggccac</p> <p>atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtcg ctgtctacaa</p> <p>gcagcagagg agatgccccaa caccacctg ggcctgcctg cgacctggga tgggctgctg</p> <p>tgctggcaa cggcaggctc tggcagatgg gtacacctcc cctgcgccga ttcttctct</p> <p>cacttcagct cagagtcagg ggcctgtgaa cgggattgta ctatcactgg ctggtctgag</p> <p>ctctttccac ctacacctg ggcctgcccc gtgcctctgg agctcctggc tgaggaggaa</p> <p>tcttacttct ccacagtgaa gattatctac accgtggggc atagcatctc tattgtagcc</p> <p>ctcttcgtgg ccatcaccat cctggttgct ctcaggaggc tccactgcc ccggaactac</p> <p>gtccacaccc agctgttccac cacttttacc ctaaggcggg gacgtgtgtt cctgaaggat</p> <p>NP_000823</p> <p>agcagccaag gcttactgag gctggtggag ggaagccactg ctgggctcac catggaccgc A</p> <p>cggatgtggg gggcccaactg ctctctgctg ttgagccctg taccagcgt attgggccac</p> <p>atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtcg ctgtctacaa</p> <p>gcagcagagg agatgccccaa caccacctg ggcctgcctg cgacctggga tgggctgctg</p> <p>tgctggcaa cggcaggctc tggcagatgg gtacacctcc cctgcgccga ttcttctct</p> <p>cacttcagct cagagtcagg ggcctgtgaa cgggattgta ctatcactgg ctggtctgag</p> <p>ctctttccac ctacacctg ggcctgcccc gtgcctctgg agctcctggc tgaggaggaa</p> <p>tcttacttct ccacagtgaa gattatctac accgtggggc atagcatctc tattgtagcc</p> <p>ctcttcgtgg ccatcaccat cctggttgct ctcaggaggc tccactgcc ccggaactac</p> <p>gtccacaccc agctgttccac cacttttacc ctaaggcggg gacgtgtgtt cctgaaggat</p>	Homo sapiens

151/448

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	<p>ggtgcccttt tccacagcga cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg cgcctccca tttcgccacc atgaccaact tcagctggct gttggcagaa gccgtctacc tgaactgcct cctggcctcc acctccccc gctcaaggag agccttctgg tggctggttc tcgctggctg ggggctgccc gtgctcttca ctggcacgtg ggtgagctgc aaactggcct tcgaggacat cgcgtgctgg gacctggaag aacctcccc ctactggtgg atcatcaaa ggcacattgt cctctcggtc ggggtgaact ttgggctttt tctcaatat atccgcatcc tggtaggaa actggagcca ctcagaggca gccccatc cagctctcag tattggcgtc tctcaagtc gacactttc ctgatccac tcttggaa tcactacatc atctcaact tctggccaga caatgctggc ctgggcatcc gccctcccc gtagctggga ctgggttctc tccagggctt cattgttgc atctctact gcttctcaa caagaggtg aggactgaga tctcagggaa gtggcatggc catgacctg agcttctgcc agcctggagg acctgtgcta agtgagacc accttccgc tcggcgga aggtgctgac atctatgtc taggtgctc catcagcca ctggagtcca cacttgaatt tgggcagcta ccacgggtc gccatgctct ggaggagcaa gggggccaca tccccaccc agctgttacc cagccccggg caggtgcagc ccttctccc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc tacctctgac ttctgtggtc cctctgtgtc tgctctcatc cattctctt actggggcct ggggctctag cccaagctc agaggagcca ataaacctgt aaatgaataa aaaaaa GLLCPWPTAGS GEWTLPCPD FFSHFSESG AVKRDCTITG WSEPPFPYVP ACPVPLELLA EEESYFSTVK IITYVGHIS IVALFVAITI LVALRRLHCP RNYVHTQLFT TFIKAGRVE LKDAALFHS DTDHCSFSTV LCKVSAASH FATMNFNSWL LAEAVYNCL LASTSPSSRR AFWLVLAGW GLPVLFTGTW VSKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGLE LNIRILVRK LEPAQGS LHT QSQYWRLSKS TLFLIPLEGI HYIIFNLPD NAGLGIRLPL ELGLGSFQGF IVAILYCFIN QEVRTSIRK WHGHDPELLP AWRTRAKWTT PPSRAAKVLT SMC</p>	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	<p>caggagagaca tacaggattt aagaagccca tcaatggagaa gaccttcaat tacagagata aaaagtthttt cttgtggaac aagttaacac tagatggcag ataacagact gaggagtgag ctgcttctga ctcgattaaa aaggagtgga gccataactg gcggctgctc ttctgccaat gagcctcccc aattcctcct gcctcttaga agacaagatg tgtgaggga acaagaccac tatggccagc cccagcttga tgccccctgt gctggtcctg agcactatct gcttgggtcac agtagggctc aacctgctgg tctgtatgc cgtacggagt gacgggaagc tccacactgt ggggaacctg tacatcgtca gcctctcgtt ggcggacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgctcatgct caagtgggtca ctgggcccgtc ctctctgctc cttttggctt tccatggact atgtggccag cacagcgtcc atttccagtg tcttcatcct gtgcatlgat cgtacccgt ctgtccagca gccctcagg taccttaagt atcgtaccaa gaccgagcc tcggccacca ttctggggc ctggtttctc tctttctgt gggttattcc cattctaggc tggaaatcact tcatgcagca gacctcgtg gcgcgagagg acaagtgtga gacagacttc tatgatgtca cctgggtcaa ggtcatgact gccatcatca acttctacct gcccacttg ctcattgctt ggttctatgc aagatctac aaggccgtac gacaacactg ccagcaccgg gagctcatca ataggctcct ccttctcttc tcagaaaita agctgagggc agagaacccc aaggggggtg ccaagaaacc agggagagg tctccctggg aggttctgaa</p>	Homo sapiens

aaggaaagcca aaagatgctg gtggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tcccagttg tcttcagcca agaggatgat agagaagtag acaactcta
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tggtccagc gagatatcag agtatcagat agccaatcct tctctgaac
ggactcagat accacacag agacagacc aggcaaggc aattgagga gtgggtctaa
cacaggcctg gattacatca agtttacttg gaagaggctc cgctcgcat caagacagta
tgtatctgg ttgcacatga accgcaaaag gaagccgccc aaacagttgg gttttatcat
ggcagcctc atcctctgct ggatccctta tttcatcttc ttcattggtca ttgccttctg
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tgtggaatcc aaaccacgt cttaggggct tggtagtttg gaaagtctct aggcaccata
gaagaacagc agatggcgtt gatcagcaga gatatgaaac tttagggagg aagcagaatc
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ataaaagaga gagagaatca gacctgggtg gaactctct gctcctcagg aactatggga
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aaaagtcat tgtaacttt catagccata cctggtaagc aaaaactagt aaagacatag
gaacatgtag ttttacttg tgtttatgtt gcaatctggt tgtgatttat attttaaagc
ttggtgctaa accacaatat gtatagcaca tggagtgctt gtacaagtgt atgttttcta
tttgtgttc ctctttgcat gatctgtcaa agtggagatatt ttttacctgc ctaaaaatg

144	2120	Histamine H1 NP_000852.1 Receptor	atgtttaaaa gcatactcta tgtgatttat ttatttctac ctttctgagt ctcttggact aagaagatgt tttgaaatgt accatcaaat gtttaacagag tttgatatgg gctttctctt tggtttctca tcacatttgt aaatgtcttt tcaaaaggat ttactttttt taaaaagctt cattctcact ctgctttgca tcccccaaac ttctgttca aaacgggggg agtttaggag actttaatcc cggtttcaga agctgcagct ggtctgttcc caggtcagaa accattgttc agaagacctc cctgtgagag agttgtctct cagggtccct caggaccaaa gaacactcga aaagagcact tcacacagac aagtggctaa gtgtccatta ttaccttga acaatcaagg caactagtg agagaaactga ttgtgagctc MSLPNSSCLL EDKMCENKT TMASQMLPL VVVLSTICLV TVGLNLLVLY AVRSEKLTHT P VGNLYIVSL VADLIVGAVV MPNNILYLLM SKWSLGRPLC LFWLSMDYVA STASIFSFI LCIDRYRSVQ QPLRYLYRT KTRASATILG AWFLSFLWVI PILGWNHFMQ QTSVRREDKC ETDFYDVTWF KVMTAIINFY LPTLLMLWFY AKIYKAVRQH CQHRELINRS LPSFSEIKLR PENPKGDAK PGKESPWEVL KRPKPDAGG SVLKSPSQTP KEMKSPVVFES QEDDREVDKL YCFPLDIVHM QAAAEGRSD YVAVNRSHGQ LKTDEQGLNT HGASEISEDQ MLGDSQSFSR TSDTTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQKQLGFI MAAFILCWIP YFIFFMVIAF CKNCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTFK RILHRS	Homo sapiens
145	2121	Histamine H2 NM_022304 Receptor	ctctgcccct ccactgactc cagagaggga gatccccagt acttgactcc atcacgcaga A tgggagcagg caccagctat ggagagggat acagctgcgt ctccacatga cccatccctg atgacaccaa agccaccgcc agacagtgc tcgatttcta tgcaaaacct gggaagcgga gacctacccc agccccggga ggaagctagc ttctcagggg accgtctgag gactggagtt tgatccatga acctggcttc gaggccttgc ttctctctct tcttcattca tattcatcc caacacctta gaaggtgttg cttaatttat ttctagaaaa gcagcccaga gtcagtcatt gaagccttcc ccacccccctg gccaaaaaaa aaaaactggac acattttgga tctgttggga gcttgagtc cagtgttgg catagtgtgc acattgggag cagagaagaa gcaaccaggg gccctgatca ggaggactgag ccgtagagtc ccaggatggc acccaatggc acagcctctt ccttttgctt ggactctacc gcattgcaaga tcaccatcac cgtggtcctt gcgtctctca tctctcatcacc cgttgcctggc aatgtgtgtcg tctgtctggc cgtgggcttg aacgcgggc tccgcaacct gaccaattgt ttcactgtgt ccttggctat cactgacctg ctcctggcc tctgtgtgct gcccttctct gccatctacc agctgtcctg caagtggagc tttggcaagg tcttctgcaa tatctacacc agcctggatg tgatgtcttg cacagcctcc attcttaacc tcttcatgat cagcctcgac cgttactgag ctgtcatgga cccactgcgg tacctgtgct tggtcacccc agtctgggtc gccatctctc tggctttaat ttgggtcatc tccattaccc tgtcctttct gtctatccac ctgggttgga acagcagaa cgagaccagc aagggaatc ataccacct taagtgaata gtccaggtca atgaagtgtc cgggctgggtg gatgggctgg tcaccttcta cctcccgcta ctgactatgt gcataccata ctaccgcac ttcaaggtcg cccgggatca ggccaagagg atcaatcaca ttactcctg gaaggcagcc accatcaggg agcacaagg cacagtga caatggcgccg tcatgggggc cttcatcatc tgctgggttc cctacttcac cgcgtttgtg taccgtgggc tgagaggga tgatgccatc aatgaggtgt tagaagccat cgttctgtgg cgtggctatg ccaactcagc cctgaacccc atcctgtatg ctgcgctgaa cagagacttc cgcacggggt accaacagct cttctgctgc	Homo sapiens

146	2121	Histamine H2 NP_071640.1 Receptor	aggctggcca accgaactc ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaaac cctgaagct ctaggttgg agtgggacag aagtcacggc cccccaggga gccacagaca ggtaatagcc ctagccattg gtgcacagga tgggggcaat ggaggggat gctactgat ggaatgatta agggagctgc tgtttaggtg gtctgtggtt atgttctag aactttcat ggcactttg taaacacct cttgcttaat cctcccaacg gccccaaaag gtagaactta gctccctttt aaaaggagca cattaaaatt ctcagaggac ttggcaagg cgcacagct ggggcat	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	MAPNGTASSE CLDSFACKIT ITVLAVLIL ITVAGNVAVC LAVGLNRRRL NLNCFIVSL P AITDLLLGLL VLPFAIYQL SKWSEFGKVF CNITYSLDVM LCTASILNLF MISLDRYCAV MDPLRYPLV TPVRVAISLV LIWVISITLS FLSIHGWS RNETSNGNHT TSKCKVQVNE VYGLVDGLVT FYLPLLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTLAAVM GAFIICWFPY FTAFFVYRGLR GDDAINEVLE AIVLWLGYN SALNPILYAA LNRDERTGYQ QLFCCRANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KLQVMSGTEV TAPQGATDR tgacgactc accatggaat ccccgattca gatcttcgc ggggagcctg gcctacctg A cgccccagc gctgctcgc cccccaacg cagcgcctg tttcccgct gggccgagcc cgacagcaac ggcagcgccg gctcgagga cgcgagctg gagccgcgc acatctccc ggccatccc gtcacatca cgcggtcta ctcgtagtg ttcgctgtg gcttgggtgg caactcgctg gtcagtgtcg tgatcatccg atacacaaag atgaagacag caaccaat ttacatatatt aacctggctt tggcagatgc tttagttact acaacctgc cctttcagag tacggtctac ttgatgaatt cctggcctt tgggagatg ctgtgcaaga tagtaatttc cattgattac tacaacatgt tcaccagcat cttccacttg accatgatga gcgtggaccg ctacattgcc gtgtgccacc ccgtgaaggc ttggacttgc cgcacacct tgaaggcaaa gatcatcaat atctgcatc ggctgctgc gtcactgtt ggcactctg caatagtcct tggaggcacc aaagtccagg aagacgtcga tgctattgag tgctcctgc agtcccaga tgatgactac tcctggtggg acctctcat gaagatctgc gtcttcact ttgccttctg gatccctgtc ctcacatca tcgtctgcta caccctgatg atcctgctc tcaagagcgt ccggtcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt cctggtggtg gtggcggtt tcgtcgtctg ctggactccc attcacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgcttaggc tataccaaca gtacccctgaa tccattctc tacgcttbc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tccgtcttac ctgagggaca tcgatgggat gaataaacca gtatgactag tcgtggagat gtcttcgtac ag MESPIQIFRG EPGTCAPSA CLPPNSSAWF PGWAEPSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVVF VVGLVGNLSV MFVIIRYTKM KTATNIYIFN LALADALVTT TMPFQSTVYL MNSWPFGLDL CKIVISIDY NMFTSIFLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLSSSVG ISAILVGGTK VREDVDVIEC SLQFPDDDS WWDLEMKICV FIFAFVIPVL IIIVCYTIMI IRLKSVRLLS GSREKDRNLR RITRLVLVVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPRK1)	NP_000903.1 ggcgccccat gaagcagcgg	Homo sapiens
149	2964	Luteinizing	NM_000233 ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgcgt gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
ccgacggcgc cctgcgctgc ccgcccacca cggccggtct cactcgacta tcacttgctt
acctccctgt caaagtgat ccatctcaag ctttcagagg actaatagag gtacataaaa
ttgaaatctc tcagattgat tccctggaaa ggatagaagc taatgccttt gacaacctcc
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ttatagaaat ttgtacacag taattttgtt tgatgaatct tttaaaaaac agaggaggt
tttgcatac ctttttttca ttttcgtaat ttgtattgca ttctataaaa atattagttc
ataacagatc agaaatttaa aataaggggc tttttcctca ggtagtttga aaacacact

150 2964 Luteinizing NP_000224.1 Homo sapiens
Hormone/Chor
iogonadotrop
in Receptor

ctagagatgc actgttcaat tcggtacgca ctaggccacat gtgggctaaa taaaattaaa
taaaatgaga aatgtagttt ctacgttgca ctacgtttca agttctcaat ggctacgtca
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gagttagaat tactctgaag ttatgaaca tataatgaaa acaatttttc cgcc

P

Homo
sapiens

MKQFSAQL LKLLLLQPP LPRALREALC ANAFDNLNL SEILIQNTKN LRYIEPGAFL
VKVIPSQAFR GLNEVIKIEI SQIDSLERIE VTKVFSSSEN FILEICDNLH ITTIPGNAFQ GMNESVTLK
NLPGLKYL SI CNTGIRKFPD SHAENGTLT SLELKENVHL EKMNGAFRG ATGPKTLDIS STKLQALPSY
LYGNGFEEVQ TSSYSLLKKLP SRETFVNLE ATLYPSHCC AFRNLPTKEQ NFESHISENF
GLESIQRLIA TSSYSLLKKLP SRETFVNLE ATLYPSHCC AFRNLPTKEQ NFESHISENF
SKQCESTVRK VSNKLYSSM LAESELGWD YEYGFCLPKT PCAPEPDAF NPCEDIMGYD
FLRVLIWLIN ILAIMGNMTV LFVLLTSRYK LTVPRFLMCN LSFADFCMGL YLLLIASVDS
QTKGQYINHA IDWQTGSGCS TAGFFTFVFS ELSVYTLTVI TLERWHTITY AIHLDQKLRL
RHAILIMLGG WLFSSLIAML PLVGSVSNYMK VSICFPMQVE TTLSQVYILT ILILNVVAFF
IICACYIKIY FAVRNPELMA TNKDKIAKK MAILIFTDET CMAPISFFAI SAAFKVPLIT
VTNSKVLVLV FYPINSCANP FLYAIFTKE QRDFFLLLSK FGCCRRRAEL YRRKDFSAIT
SNCKNGFTGS NKPSQSLKL STLHCQGTAL LDKTRYTEC

151 2976 Lysophosphat NM_001401
idic Acid
Receptor
Edg2

Homo
sapiens

acggcgcgct gggctcacac tgtcccgccg cggacgggct ttgtggttgg gggcgcgctg A
ggagtgcca gtgagagtgt ggggtgcgcg tgtgggcccg ggcgcgggtg ggtggcccgtg
cgctcttgcc agccggccctg caggaggcga ggctcccctg gctcccgcga cccagggcg
gaccgagccc ctggaggga gttgcgcgac tagcatgact cagcaacaa gaaaatttgt
gccaggtaga cagcttctcc tagcatgact gttcacacc tacaaccaca gactgtcat ggtgcccac
ctcccgtagt tctggggcgt gttcacacc cagttcacag ccatgaatga accacagtgc
tctacttcca tccctgtaat ttcacagccc cagttcacag ccatgaatga accacagtgc
ttctacaacg agtccattgc cttcttttat aaccgaagt gaaagcatct tgccacagaa
tggacacacag tcagcaagct ggtgatgga ctgggaatca ctgtttgtat cttcatcatg
ttggccaacc tatgtgtcat ggtggcaatc tatgtcaacc gccgttcca ttttcttatt
tattacctaa tggctaattt ggtgctgca gacttctttg ctgggttggc ctacttctat
ctcatgttca acacaggacc caatactcgg agactgactg ttagcacatg gctcctgcgt
cagggcctca ttgacacccag cctgacggca tctgtggcca acttactggc tattgcaatc
gagaggcaca ttacggtttt ccgcatgcag ctccacacac ggatgagcaa ccggcgggta
gtgtgtgtca ttgtgttcat ctggactatg gccatcgtaa tgggtgtat acccagtgtg
ggctggaact gtatctgtga tattgaaaat tgttccaaca tggcacccct ctacagtgc
tcttacttag tcttctgggc cattttcaac ttgtgtgtaatt ttgtgttctc
tatgtcaca tctttggcta ttttcggcag aggaactatga gaactgtctg gcatagttct
ggaccocggc ggaatcgga taccatgatg agtctcttga agactgtgtt cattgtgctt
ggggccttta tcatctgctg gactccttga ttgtttttgt tacttctaga cgtgtgctgt
ccacagtgcg acgtgctggc cttatgagaa ttcttcttct ccttctctga attcaactct

152	2976	Lysophosphat NP_001392.1 idic Acid Receptor Edg2	<p>gcatgaacc ccataattta ctctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accggcccca cagaaggctc agaccgctcg gcttcctccc tcaaccacac catcttggtt ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccagggcaa ggtggggtgt gagagaggag aagagtcaac tcatgtactt aaacactaac caatgacagt attgttctct ggaccccca agacttgata tatattgaaa attagcttat gtgacaaccc tcatcttgat cccatccct tctgaaagta ggaagtggga gtccttgcaa tggaattcaa gaacagactc tggagtgtcc attagacta cactaaactag acttttaaaa gattttgtgt ggtttgtgtc aagtcagaat aaattctggc tagttgaatc cacaacttca ttatatata ggttccctt ttttattttt aaaggatacg ttacacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgctttttaa ctaccataat tccatttttt cctttacata ggaacactgt aagttggaat tatctttgtt ttagaaagca tgcattgaat gtatgtatgc agtatgcctt acttaaaaag attaaaagga tactaatgtt aaatcttcta ggaatatgaa cttagacttc aaagccagta ttgttttagg tcatgaagca aacaatgctc taatcacaat attaaactgt taattaaaaa gttgtaacaa gtataaaaca ggaatgtaa gtttattacc aaagtatat gtattccaaa aaagtcatag aagatgaagc actataatat tgttcccata tattaaaa acccaagtac attctaata ccagtatatc agaggaaaaa ttctgtatgc ttgttaaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt gtatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttggccacatt tcttatggc attaaaaat ttcaaaaaa ataattttaa tggctatat atattccatt taatggatgc aactcagttt atttaaccat tcccagttg ttaactattt aggtgtttc taattttcat tattataaag ttgcagaaat ttggtgt</p> <p>MAAISTSIPIV ISQQTAMN EQCFYNESI AFFYNRSGKH LATEWNTVSK LVMGLGITVC P IFIMLANLLV MVAIYVNRFF HFPIYILMAN LAAADFFAGL AYFYLMNTG PNTRRLTVST WLLRQGLIDT SLTASVANLL AIAIERHIV FRMLHTRMS NRRVVVVIV IWTMAIVMGA IPSVGWNIC DIENCSNMAP LYSDSYLVFW AIFNLVTFW MVLYAHIFG YVRQTRMS RHSSGPRNR DTMSLLKTV VIVLGAFIIC WTPGLVLLL DVCCPQCDVL AYKFFLLLA EFNSAMNP II YSYRDKEMSA TFRQILCCQR SENPTGPTES SDRASSSLNH TILAGVHSND HSVV</p>	Homo sapiens
153	3038	G Protein- Coupled Receptor MRG	<p>ttttgtattt gttgcacccct aagtcgtgtc atttcttctt cctcagctga catttgagc A atagcagtcg atgatgccc aacagacact gcctgagact cagcccccgt gagaaacgca gatttcccta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgcaa ctgctgtgaa atgctgctt tggaatctc agtgcctcct tgtacctgtc tgagccagg gaaatgccat actgtggcac tctgcatcc tgtatggcta cccaagatg ccaggactg gtttgaaaga gatgagacat ggccaggtgc tgggtcacg cttgtaatcc agcactttg gaggtcaagg cagtggatca caaggtcaga gttagacca gccaggccaa tatggtgaa acccatctc tactaaaaa acaaaaaat agcgggcaa tgggtgtggg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctggaaggt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtgagac tccaactcaa</p>	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaa aaaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtccc aacaacaaga tattgggtct atgtgggtag gcctggggca tcctgtacaa caggagatgt gttaggggag ggagaacaga tcacaaattc atggagagct atttgagag cagatactcc catccactct gatattgtagt taatgttcag ctgttcttaa aagcacacc caacaatggg tgttctattc cagctcctga aaatgtagag gcaagggggtc tgaggccaga ggacaccatt agatggacca ctgctcctga ctgtgatgtt gtggcccat caggtccag caccocatgg tctgggggaa aattgtctgg ttcagccaga gggctggatg gacagtgtt gctgagtcac agatatctct ctcatgtagc ctttgtctcc acagtgtga ccaggaggca cagaacccaa acctgtatc tcagctctgt ggctctttc ttcaaaatga gacgaatga accatacata tgcagatgag catggcagtg ggacagcagg cctgtccctt gaatatcatt gccccaaag ctgtgtctgt ctccctctgt ggggtcttat tgaatggcac tgtcttctgg ctgcttctgt gtggggccac gaatccctac atggtataca tctccacct ggctgtctgt gacgtgatct atctttgtg ctggcagtg gggttcttac agtgactct gctaaactat catggagatg tgttttttat cctgatctc ctggccatat tgtctccctt ctctttttag gtgtgtctct gtctcctggt ggccatcagc acagagcgtt gtgtgtgtgt cctcttccc atctgtgaca gatgccaccg ccaaaatac acatctaag ttgtctgcac cctcatctgg ggcctgcctt ttgcatcaa catagtaaaa tcaactttcc taactactg gaaacatgta aaggcatgtg tcaatattct aaagctttct gggctcttcc atgtctctt ttcacttgt atgtgtgtgt cgagtctgac tctactcatt agattcctgt gctgtccca gcagcaaaag gccaccagg tctatgcggt ggtgcagatc tgggccccca tgttctact ctgggcccta cctctgagcg tggcaccctt cataacagat ttcaaaaatgt ttgtcaccac ctcttattta atttcttgt tctcattat aaacagcagc gccaacctta tcatttattt ctttgtggg agcctcagaa agaaaaggct gaaggaaatct ctcagagtga ttctccaaag ggcgttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cacttactc agcatgtgga gaaccttctt ccaggggagc acagggtcga tgtggaaaca taatttccca catctgagct ggggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatacaatc aatgctttat tctaatacag ttcagcttcc atggactttc aaacaaaccc ctgctgtttt gtggttggaa gagacattaa ctctctctct aggcagtaag cccagtgtga atgtgtcca gtccaacga tgagggggaat gggaccagt gagactttcc tggtaacctgt ggaatccaaa taaagaccat acaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> atgagcatcc aaaagaagta tctggaggga gatattgtct tctctgtgag cagcagcagc A ttcctacgga ccctgctgga gccccagctc ggaatcagccc tcttgacagc aatgaatgct tctgtgctgcc tgcctctctgt tcagccaaca ctgcctaag gctcggagca cctccaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	<p> cctttcttca gcaaccagag cagcagcgcc ttctgtgagc aggtcttcat caagccccag atthtccctgt ctctgggcat cgtcagctgt ctggaataca tcttggttat cctggccgtg gtcaggaacg gcaacctgca ctccccgat tacttcttct tctgcagcct ggcggtggcc gacatgctgg taagtgtgtc caatgccctg gagacatca tgcagccat cgtccacagc gactacctga ccttcgagga cagttttatc cagcacatgg acaacatctt cgactccatg atctgcatct ccttggtggc ctccatctgc aacctctgg ccatcgccgt cgacaggtac gtcaccatct tttacgcgct ccgtaccac agcatcatga ccgtgaggaa ggccctcacc ttgatcgtgg ccatctgggt ctgctgcggc gtctgtggcg tgggtttcat cgtctactcg gagagcaaaa tggteattgt gtgctctatc accatgttct tggccatgat gctcctcatg ggcaccctct acgtgcacat gttcctcttt gcgcggtgc acgtcaagcg catagcagca ctgccacctg ccgacggggt gggccacacg caacactcat gcatgaaggg ggcagtcacc atcaccattc tcttggtggc gttcatcttc tgcgtggccc ctttcttctt ccacctggtc ctcatcatca cctgccccac caaccctac tgcactgtct acactgccc cttcaacacc taoctggctc tcatcatgtg caactccgtc atcgaccac tcatctacgc tttccggagc ctggaattgc gcaacacctt tagggagatt ctctgtggct gcaacggcat gaacttggga tag </p>	<p> Homo sapiens </p>
157	3058	Melanocortin NM_005912 4 Receptor (MC4R)	<p> MSIQKKYLEG DFVFPVSSSS FLRTLLEPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSA FCEQVFIRPE IFLSLGVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIAVDYR VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGWVFIVS ESKMVIVCLI TMFFAMMLLM GTLVHMFLF ARLHVKRIAA LPPADGVAPQ QHSCMKGAVT ITILGVFIF CWAPFFHLV LIITCTPNPY CICYTAHENT YLVLMCNV IDPLIYAFRS LELRNTFREI LCNGNGMNLG atgtgaaact ccacccacgc tgggatgcac acttctgaa cctctggaa ccgcagcagt A tacagactgc acagcaatgc cagttagtgc cttgaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc accatgtac tttttcatct gcagcttggc tgtggctgat atgctggtga gcgtttcaaa tggatcagaa accattatca tcaccctatt aaacagtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agtctcttgc ttgcattcat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgtgca tcatctgctt catcaccatg ttcttcacca tgcctggctct catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggattgc tgtctctccc ggcactgggtg ccatecgcca aggtgccaat atgaaggagg cgattacctt gaccatctct atggcgctct ttgtgtcttg ctgggccccca ttcttctctc acttaaatatt ctacatctct tgcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcactgt atcatgtgta attcaatcat cgatcctctg atttatgcac tccgagtgta agaaactgag aaaaacttca aagagatcat ctgttgctat ccccggggag gcccttggta cttgtctagc agatatata MVNSTHRGMH TSLHLNRRSS YRLHNSASES LGKGYSDGGC YEQLFVSPEV FVTGLVISLL P ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLINST DTDAQSFTVN </p>	<p> Homo sapiens </p>
158	3058	Melanocortin NP_005903.1 4 Receptor		<p> Homo sapiens </p>

159	3059	Melanocortin NM_005913 5 Receptor (MC5R)	(MC4R)	IDNVDSVIC SLLASICS LSIADVRYFT IFYALQYHNI MTVKRVGIII SCIIWAACTVS GILFIIYSDS SAVIICLITM FFTMLALMAS LYVHMFILMAR LHKRIAVLP GTGAIRQGAN MKGAITLIL IGVEVVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGLCDLSS RY atgaattcct cattcacct gcatttcctg gatccaacc tgaatgccac agagggcaac A ctttcaggac caatgtcaa aacaagtct tcaccatgtg aagacatggg cattgctgtg gaggtgtttc tcaactcggg tgtcatcagc ctcttgagga acatcttggt cataggggccc atagtgaaga acaaaacct gcactcccc atgtacttct tcgtgtgcag cctggcagtg gaggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgccttt gtgcgccaca ttgacaatgt gtttgactcc atgatctgca tttccgtggt ggcattccatg tgcagcttac tggccattgc agtgatagg taggtcacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcgctcaggg gccatcatcg cgggcattcg ggtttctgc acgggctgcg gcattgtctt cctcctgtac tcagaatcca cctacgtcat cctgtgcctc atctccatgt tcttcgtat gctgttctc ctggtgtctc tgtacataca catgttctc ctggcgcgga ctacgtcaa gcggatcgcg gctctgccc gggccagctc tgcggcgag aggcacagca tgcagggcgc ggtcacctc accatgctgc tgggctgtt tacctgtgc tgggccccgt tcttcttca tctcacttta atgcttctt gccctcagaa cctctactgc tctcgttca tgtctactt caatatgtac ctcactacta tcatgtgtaa ttcggtgatg gacctctca tatatgcctt ccgcagccaa gagatgcgga agacctttaa ggagattatt tgcgtccgtg gtttcaggat cgcctgcagc tttccagaa gggattaa MNSFHLHFL DLNLNATEGN LSGPNVKNKS SPCEMDGIAV EVFLTGVIS LLENILVIGA P IVKNKHLSP MYFFVCSLAV ADMLVSMSSA WETITIYLLN NKHLVIADAF VRHIDNVFDS MICISVWASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TCGGIVFIFY SESTYVILCL ISMFFAMLF LVS LYIHMFL LARTHVKRIA ALPGASSARQ RTSMQGAIVT TMLLGVFTVC WAPFFLHLTL MLSCPQLYC SRMSHFNMV LILIMNSVM DPLIYAFRSQ EMRKTKEII CCRGFRIACS FPRD	Homo sapiens
				3059	Melanocortin NP_005904.1 5 Receptor (MC5R)
161	3061	Melanocortin NM_002386 1 Receptor (MC1R)			Homo sapiens

162	3061	Melanocortin 1 Receptor (MC1R)	NP_002377.2	MAVQSQRRRL ATIAKNRNH DVITCSSMLS AYYDHVAVLL VTLLILLGIF HSQELRRTLK EVLTCSW	LGSINSTPTA SPMYCFICCL SLCFLGAIIV CLVVFFLAML FLCWGPFPLH EVLTCSW	IPQLGLAANQ ALSDDLVSQS DRYISIFYAL VLMVVLVHVM LTLVLCPFH LTLVLCPFH	TGARCLEVSI NVLETAVILL RYHSIVTLPR LARACQHAQG IARLHKRQRP FTCGCIFKNE NLFALIICN	VSIVENALVV AVLQQLDNVI ASVVFSTLFI VHQFGGLKGA AIIDPLIYAF	Homo sapiens
163	3079	Melatonin Receptor type 1a	NM_005958	ccggcggagc gggacgcgaa gtgctccgag atcttcacca aacaagaagc gtgggtggcca ctgggctatc atattcaaca tacgacaaac acgctggcgg tactcgtgca cacttcctcg ctccagggtca aggaattttg aacttcattg tggctgtttg tacgggctac acagccaggg ccgtctccac acgttccggg gcagagtggg cgtgctgtca gagagtaca tgcattcagg ttgcattctt taaatgagca agtgcctctt	cttaacaagt cagggaccat gggacggcgc tcgtgggtgga tcaggaacgc tttatccgta tgcactgcca tcaccggcat tgtacagcag ccgtctcggc ccttcgcccc tccccatgat gacagagggg tcaccatgtt gcctggccgt tggccagtta tgaacaaaaa tgattctttg tgatgacca tgagatggac ggagaaact gcattataaa tgtaactga ggaaggagt cttcactttt aatggaacaa attacagagg	ggtcggggcg gcagggaac gggcccctcg cctcctgggc aggaacatc cccgttgggtg agtcagtggg cgccatcaac caagaactcc caacctccgt gtccgtcagc catagtcac gaaacctgac tgtgggtttt ggcctctgac ctacatggcg tttcagggaag ggacagctct caataatgta acgtgcgca tccaaacttt ccccccaat ggaatgcggg tgcaaacctt tgaagacttc gcattataaa tgtaactga ggaaggagt tgaagacttc tgaagacttc gtaaatggaa acataaatca	gcggacgagg ggcagcgcg tggtggcggt aacctcctgg agaaacatc cccgttgggtg gtcgtatgga tctcgtatgg cgctactgct gcagggaact tccgctcagc tctgttacc cgcaaaccca gtcctctttg cccgccagca tattcaaca gaatacagga aacgacgtgg gtaaaagggtg aggtcctcgt acctggctgc ctactagtca tcagggtcgg tatgtataat gagtgccaca tagcagaaaa atgaaaaga caacaatga gttaatggct	ccctgcggcc ctcccagcc ctgcgtctc gggtatcgg ggcagacctg tattagcggg gcttagcggg tatttaacaa gcttagcgtg agctatgcca tgctcctcat tccagtacga ccatgcctcg tccgctcagc tgagaaatag aactgaaacc ggctcctctg gatcccagag tgctgctcag tgccattata ctcgctctgt cagatagggg taaatggaaa actccgttta aaaaagcacc cttgacagat gtctgggaaa tgccatagtt tctgagctaa agagaagtac agctgctgaa aaaggggtaa atgttattta aagtggggtg catcaacaat	Homo sapiens

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaaccacca caaacctttc agctggcaga gttagcattg ggtagctata ctcatggtca taaatgtttg ccgctctata ttacaagtgtg tgcattgcaac cagataaaga actaaatcat aggcgggga cagtgcgtca cacctgtaac ctacgacctt tgggaggctg agtgggcag atcaactgag ttcaggagtt tgagaccacc ctggggcaac atgatgaaat cccatctcta aaaaaataca aaaaattatc tgggcatggt gcacacgctt gtaatcccaag ctactcagga gactgagtta ggagaaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtacat tccaacttag gctacagaat gagactctgc ccaaaaaaa aaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> MQNGSALPN ASQVLRGDG APPSWLASAL ACVLFTIVV DILGNLLVIL SVYRNKKLRN P AGNIFVVSIA VADLVVAIYP YPLVMSIFN NGWNLGVLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLTLAAVL PNLRAGTLQY DPRIYSCCTFA QSVSSAYTIA VVVFHFLVPM IIVIFCYLRI WILVQVRQR VKPDRKPKLK PQDFRNFVTM FVFVLEAIC WAPLNFIGLA VASDPASMVP RIPEWLFVAS YMAYFNSCL NAIYYGLLNQ NFRKEYRRII VSLCTARVFF VDSSNDVADR VKWKPSPLMT NNNVVKVDSV </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttggttaacta caaggggcctc aggtgggggca ggtgcagagg gc MSENGSEFANC CEAGGWAVRP GWSGAGSARP SRTPRPPWVA PALSAVLIIVT TAVDVVGNLL P VILSVLRNRK LRNAGNLFLV SLALADLWVA FYPYPLILVA IFYDGMWALGE EHCKASAFVM GLSVIGSVFN ITAIANRYC YICHSMAYHRL IYRRWHTPLH ICLIWLLTVV ALLENFFVGS LEYDPRIYSC TFIQTASTQY TAAVVVIHFL LPIAVVSFCY LIWIVLVLQA RRKAKPESRL CLKPSDLRSE LTMFVVFVIF AICWAPLNCI GLAVAINPQE MAPQIPEGLF VTSYLLAYFN SCLNAIVYGL LNQNERREYK RILLALWNR HCIQDASKGS HAEGLOSPAP PIIGVQHQAD AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tggttgctgt ctgggacctgg ctgctgatcc tgagcctgct gggagatctt aacgatcccc A aggagcaaca tggggccccc cctagcgggtt cccaccccc atggctgtat tggctgtaag ctaccccagc cagaataccc accggctcta atcatcttta tgtctgcgc gatggttatc accatcgttg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagaacaag aagctccgga atcttgcaa catcttcgtg gtcagtcctt ctgtggccga tatgtgggtg gccatctacc catacccttt gatgtcgat gccatgtcca ttgggggctg ggatctgagc cagttacagt gccagatggt cgggttcac acagggtga gtgtggctcg ctccatcttc aacatcgtgg caatcgctat caaccgttac tgctacatct gccacagcct ccagtaagaa cggatcttca gtgtgcgcaa tacctgcac tacctggta tccctggat catgaccgtc ctggctgtcc tggccaacat gtacattggc accatcgagt acgatccctg caccacacc tgcatcttca actatctgaa caaccctgtc ttcactgtta ccatcgtctg catccacttc gtcctccctc tctcatcgt gggtttctgc tacgtgagga tctggacca agtgcgtggc gccctgacc ctgaggggca gaatcctgac aaccaacttg ctgaggttctg caattttcta accatgtttg tgatcttctt cctctttgca gtgtgctggt gccatataa cgtgctcact gtcttggtgg ctgtcagtc ccaggagatg gcaggcaaga tcccaactg gctttatctt gcagcctact tcatagccta ctccaacag tgcctcaacg ctgtgatcta cgggctcctc aatgagaatt tccgaagaga atactggacc atcttccatg ctatggcgca cctataata ttcttccctg gccatcag tgatatctgt gagatgcagg aggcccgtag cctggccccg gccccgtccc atgctcgcga ccaagctcgt gaacaagacc gtgcccacatg ctgtcctgct gtggaggaaa ccccgatgaa tgtccgggaat gttccattac ctggtgatgc tgcagctggc caccgcgacc gtgcctcttg ccaccctaag ccccatcca gatcctcctc tgcctatcgc aaatctgctt ctaccacca caagtctgtc tttagccact ccaaggctgc ctctggtcac ctcaagcctg tctctggcca ctccaagcct gcctctggtc acccaagtc tgcacactgc taccctaagc ctgcctctgt ccatttcaag ggtgactctg tccatttcaa ggtgactct gtccatttca agcctgactc tgttcattc agcctgctt ccagcaacc caagcccatc actggccacc atgtctctgc tggcagccac tccaaagtctg cttcagatgc tgcacacagc caccctaacc ctaccagcca ccctaagccc catgctgagc ccaccactgc tgactatccc aagcctgcca ctaccagcca cccctaagccc gctgctgctg acaaccctga gctctctgcc tcccatgccc ccgagatccc tgccattgccc caccctgtgt ctgacgacag tgacctccct gagtcggcct ctgacctgccc cgtggggccc accaagcctg ctgccagcca gctggagtct gacaccatcg ctgaccttcc tgacctact tagtacta cagtaaccaa tgattaccat gatgtcgtgg ttgttgatgt tgaagatgat cctgatgaa tggctgtgtg aaaaatgctc tcgtaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCI GCKLPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTKNKKLR P NSGNI FVSL SVADMLVAIY PYPLMLHAMS IGGWDLSQLQ CQMVGFITGL SVVGSIFNIV AIAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGTIE YDPRTYTCIF NYLNNPVFTV TIVCIHFVLV LLIVGFCYVR IPWKVLAARD PAGQNPQNQL AEVRNFLTME VIFLLFAVCW CPINVLTVLV AVSPKEMAGK EARTLARARA HARDQAREQD RAHACPAVEE FRREYWTIFH AMRHPIIFFP GLISDIREMQ EARTLARARA HARDQAREQD RAHACPAVEE TPMNVNRNPL PGDAAAGHPD RASGHPKPHS RSSSAYRKSA STHKSVFESH SKAASGHLPK VSGHSPASG HPKSATVYPK PASVHEKGDG VHEKGDVHF KPDSVHFKPA SSNPKEITGH HVSAGSHSKS AFSAATSHPK PIKPATSHAE PTTADYPKPA TTSHPKPAAA DNPELSASHC PEIPAIAHPV SDDSDLPESA SSPAAGPTKP AASQLESDTI ADLPDPTVVT TSTNDYHDVV VVDVEDDPDE MAV	Homo sapiens
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgcct ccagcttgtta gaggggtctg tggaggagccc agaggaggag A acgaaggga aggagggcgt ggtggaggag gcaaaaggcct tggacgacca ttgttggcga ggggcaccac tccgggagag gggcgcttgg gctgttggg gctgcgcgc gggagcctgc agcgggacca gcgtgggaac gcgctggga gctgtggac ctcgtcctca ccaccatggt cgggctcctt ttgtttttt tcccagcgat ctttttggag gtgtcccttc tcccagaag ccccggcagg aaagtgttgc tggcaggagc gtctctcag cgtcgtgtgg ccagaatgga cggagatgtc atcattggag cctcttctc agtccatcac cagcctccgg ccgagaaagt gcccagagg aagtgtgggg agatcaggga gcagtatggc atccagagg tggaggccat gtccacacg ttggataaga tcaacgcgga cccggtcctc ctgcccaca tcacctggg cagtggatc cggactcct gctggcactc ttccgtgggt ctggaacaga gcattgagtt cattaggggc tctctgattt ccattcgaga taagaagccc attgctggag gtgtctgtcc tgacggccag tccctcccc caggcaggac taagaagccc attgctggag tgatcgggtcc cggctccagc tctgtagcca ttcaagtga gaacctgtc cagctcttcg acatcccca gatcgcttat tcagccacaa gcacgacct gactgacaaa acttgtaca aatacttct gagggttgtc cctcttgaca ctttgacgc agggccatg cttgacatag tcaaacgtta caattggacc tatgtctctg cagtcacac ggaagggaat tatggggaga gcggaatgga cgctttcaa gagctggctg cccagggaag cctctgtatc gccattctg acaaaatcta cagcaacgct ggggagaaga gctttgacc gctctgcgc aaactccgag agaggcttcc caaggctaga gtgtgtgtct gcttctgtga aggcatagca gtgcgaggac tctgagcgc catgcggcgc cttggcgtcg tggcgagtt ctcactcatt ggaagtgatg gatgggcga cagagatgaa gtcattgaag gttatgaggt ggaagccaa gggggaatca cgataaagct gcagctcca gaggtcaggt catttgatga ttatttctg aaactgaggc tggacactaa cacagggaat ccttggttcc ctgagttctg gcaacatcgg ttccagtgc gccttccagg acaccttctg gaaaatocca actttaaacg aatctgcaca ggcaatgaaa gcttagaaga aaactatgtc caggacagta agatgggggt tgtcatcaat gccatctatg ccatggcaca tgggctgcag aacatgcacc atgcccctctg ccctggccac gtgggctctc gcgatgccat gaagcccatc gacggcagca agctgctgga cttcctcatc aagtcctcat tcatggagt atctggagag gaggtgtggt ttgatgagaa aggagacgt cctggaaggt atgatatcat gaatctgcag tacactgaag ctaatcgcta tgactatgtg cagcttggaa cctggcagtc aggagtgtc aacattgatg attacaaaat ccagatgaac aagagtggag ttgtgcggtc	Homo sapiens

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Homo

P

3093 Metabotropic NP_000829.1 MVGLLFFFP AIFLEVSLLP RSPGRKVLIA GASSQRSVAR MDGDVIIGAL FSVHHQPPAE

170

Glutamate Receptor 1	Glutamate Receptor 2	Metabotropic NM_000839 Glutamate Receptor 2	3094	171	sapiens
KVPERKCGEI	REQVGIQORVE	AMEHTLDKIN	ADPVLLPNIT	LGSEIRDSCW	HSSVALEQSI
EFIRDSLISI	RDEKDGINRC	LPDQSLPPG	RTKKPIAGVI	GPSSSSVAIQ	VQNLLQLFDI
PQIAYSATSI	DLSDKTLYKY	FLRVPSDTL	QARAMLDIVK	RYNWTYVSAY	HTEGNYGESG
MDAFKELAAQ	EGLCIAHSDK	IYSNAGEKSF	DRLLRKLRE	LPKARVVVCF	CEGMYVRGLL
SAMRRLGVVG	EFSLIGSDGW	ADRDEVIEGY	EVEANGGITI	KLOSPVRSF	DDYFLKRLRD
TNTRNPWFPE	FWQHREFQRL	PGHLLNPNE	KRICTGNESL	EENYVQDSKM	GFVINAIYAM
AHGLQNMHHA	LCPGHVGLCD	AMKPIDGSKL	LDFLIKSSEI	GVSGEEWVFD	EKGDAPEGRYD
IMNLQYTEAN	RYDYVHVGTW	HEGVLNIDDY	KIQMNKSGV	RSVCSEPCLK	GQIKVIRKGE
VSCCWICTAC	KENEYVQDEF	TCACADLGWW	PNADLTGCEP	IPVRYLEWSN	IESIIAIAFS
CLGILVTLFV	TLIFVLRYDT	PVKSSSREL	CYIILAGIFL	GYVCFPTLIA	KPTTTSYQLQ
RLLVGLSSAM	CYSALVTKTN	RIARILAGSK	KKICTRKPRF	MSAWAQVIA	SILISVQLTL
VVTLIIMEPP	MPILSYPSIK	EYILICNTSN	LGVVAPLGYN	GLLIMSCTYY	AFKTRNVNPN
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EDAQPIRFSP	PGSPSMVVRH	RVPSAATTPP	LPPHLTAEET	PLFLAEAPALP	KGLPPPLQQQ
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172	3094	Metabotropic NP_000830.1 Glutamate Receptor 2	aggtccgctt tgaccgcttt ggtgatggta ttggcgcgta caacatcttc acctatctgc gtgcaggcag tggcgctctat cgctaccaga aggtgggcta ctgggcagaa ggcttgactc tggacaccag cctcatccca tgggctctac cgtcagccgg ccccttgcc gcctctcgct gcagtgcgc ctgcctccag aatgagtgga agagtgtga gccggcgaa tgcgtgtgct ggcttgcat tccgtgccag cctatgagt accgattgga cgaattcact tgcgtgatt gtggcctggg ctactggccc aatgccagc tgaactggctg cttcgaactg cccagagat acatccgctg gggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctgggtgccc tggccacct gttgtgtcg ggtgtctttg tgcggcaca tgcacacca gtggtcaagg cctcaggtcg gtagctctg tacatctgc tgggtgtgt ctctctctg tactgcata ccttcattt cattgccaag ccatccagg cagtgtgtac cttacggcgt cttgggttgg gcaactgctt ctctgtctg tactcagccc tgctaccaa gaccaaccg attgcacgca tcttcggtg ggcggggag ggtgcccag gccacgctt catcagtcct gcctcacagg tggccatctg cctggcaatt atctcgggc agctgctcat cgtggtcgcc tggctgtgg tggaggcacc gggcacagg aagagacag ccccggaag cgggaggtg gtgacactgc gtgcaacca cgcgatgca agtatgttg gctcgctgg ctaaatgtg ctctcatcg cgctctgac gctttatgc ttaatactc gcaagtgcc cgaacttc aacgagcca agttcatgg ctccacctg tacaccact gcatcatctg gctgcatctg ttgcccatt tctatgtcac ctccagtgc taccgggtac agaccacca catgtgctg tcagtcagcc tcagcggtc cgtgtgctt gctgctctt ttgccccaa gctgcacatc atctcttcc agccgcagaa gaactggtt agccacggg caccacacag cgcgttggc agtgcgtg ccagggccag ctccagcctt ggccaagggt gttgtcccc actggttgc atggccgcta ggtgtgtgac tgcacaaagt catcgctttg a MGSLLALLAL LPLWGAAG PAKKVLTEG DLVLGGLFPV HQKGGPAEDC GPNVNEHRGQ P RLEAMLFALD RINRDPHLLP GVRLGAILD SCSKDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSDVSIQ VANLLRLFQI PQISYASTSA KLSDKSRYDY FARTVPPDFE QAKAMAEILR FENWTYVSTE ASEG DYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRLIQK PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDGGWAL ESVVAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNNS RNPWFREFWE QRFRCSFRQR DCAHSLRAV PFEQESKIME VVNAVYAMAH ALHNMHRALC PNTTRLCDAM RPNVGRRLYK DFVLNVKFDA PFRPADTHNE VRFDRFGDGI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLPWSAP SAGPLAASRC SEPCLQNEVK SVQPGEVCCW LCIPCQPYEY RLDEFTCADC GLGYWPNASL TGCFLPQY IRWGDWAVG PVTIACIGAL ATLFVLGVFV RHNATPVVKA SGREL CYILL GGVFLCYCMT FIFIAPSTA VCTLRRLGLG TAFSVCYSAL LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISGQ LLIVVAVLWV EAPGTGKETA PERREVTLR CNRDASMLG SLAYNVLLIA LCTLYAENTR KCPENFNEAK FIFGFTMYTTC IWLALLPIF YVTSDDYRVQ TTTMCSVSL SGSVVLGCLF APKLHIILFQ PQKNVWSHRA PTSRFGSAAA RASSSLGQGS GSQFVPTVCN GREVVDSTTS SL cttttgtctc ggtgaggag gaccaacct ggcacagagc ccgggtgtcag gctcaccgcc A gccgctgcca ccgcggtcag ctccagttcc tgctcggtgcg aggaattttg tgacaggctc tgttagtctg tctctccctt atttgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacctt tgatatctcc cagaggtaca	Homo sapiens
173	3095	Metabotropic NM_000840 Glutamate Receptor 3	cttttgtctc ggtgaggag gaccaacct ggcacagagc ccgggtgtcag gctcaccgcc A gccgctgcca ccgcggtcag ctccagttcc tgctcggtgcg aggaattttg tgacaggctc tgttagtctg tctctccctt atttgaagga caggccaaag atccagtttg gaaatgagag aggactagca tgacacattg gctccacctt tgatatctcc cagaggtaca	Homo sapiens

gaaacaggat tcatgaagat gttgacaaga ctgcaagttc ttacctagc ttgtttttc
aaggatttt tactctctt aggggaccat aactttctaa ggagagagat taaaatagaa
ggtgaccttg ttttagggg cctgtttcct attaacgaaa aaggcactgg aactgaagaa
tgtggcgaa tcaatgaaga ccgagggtt caagcctgg agccatgtt gttgctatt
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gatacatgtt caaggatac ctatgcattg gagcaatcac tggagtttgt caggcatct
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aaactcagt ataagtcgc ctatgattac ttggcaggga ccgtgcccc cgacttctac
caggccaaag ccatggctga gatcttgcg ttcttcaact ggacctagt gtccacagta
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gcctacggcg ccataccct ggagctggcc tccagcctg tccgcagt ttccagctac
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tacgaatacc tggctgatga gttacctgt atggattgt ggtctggaca gtggccact
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gctcagagcc caaaattcat cagcccaagt tctcagggtt tcatctgctt ggtctgatac
ctggtgcaa ttgtgatgt gtctgtgtg ctcatcctgg agggcccaagg caccagagg
tatacccttg cagagaagcg ggaacagtc atcctaaaat gcaatgtcaa agattccagc
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aaaacgcgga agtgcccaaga aaatttcaac cgtatagttt taccatgtac
accacgtgca tcatctggtt ggccttcctc cctatatatt atgtgacatc aagtgactac
agagtgcaga cgacaaccat gtgcatctct gtcagcctga gtggctttgt ggtcttggc

174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p> tgtttgtttg caccacaggt tcaatcatc ctgtttcaac ccagagaaga tggtgtcaca cacagactgc acctcaacag gttcagtgct agtggaaactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacggtgtgc aatgggaggg aagtccctga ctcaccacc tcattctgt gattgtgaat tgcagttcag tctgtgtgtt tttagactgt tagacaaaa tgctcacgtg cagctccaga atatggaaac agagcaaaa acaaacctta gtacctttt ttagaaacag tacgataaat tttttttgag gactgtatat agtcatgtgc tagaactttc taggctgagt ctagtgtccc tattattaac aattccccca gaacatggaa ataaccattg tttacagagc tgagcattgg tgacagggct tgacatggct agtctactaa aaaaacaaa aaaaaaaca aaaaaaaa acaaaagaaa aaaaataaaa tacggtggca atattatgta acctttttc ctatgaagtt tttgttaggt cctgtgtgta actaatttag gatgagtttc tatgttgtat attaaagtta cattatgtgt aacagattga ttttctcagc acaaaataaa aagcatctgt attaatgtaa agatactgag aataaaacct tcaaggtttt MLTRLQVLT ALFSKGFLS LGDHFIRRE IKIEGLVLG GLFPINEKGT GTEECGRINE P DRGIQRLEAM LFAIDEINKD DYLLPGVKLG VHILDTCSR DTYALEQSLEF VRASLTQVDE AEYMC PDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFQIPQISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILREFNWTY VSTVASEGDY GETGIEAFEQ EARLRNICIA TAEKVGRSNI RKSYSVIRE LQKPNARVV VLFMRSDDSR ELIAAASRAN ASFTWVASDG WGAQESIIG SEHVAYGAI LELASQPVQ FDRYFQSLN YNNHRNPWR DFWEQKFQCS LQKRNHRRV CDKHLAIDSS NYEQESKIME VNAVAYAMAH ALHKMQRTL C PNTTKLCDAM KILDGKKLYK DYLLKINF TA PENPNKDADS IVKFDTFDGD MGRYNVFNQ NVGGKYSYLK VGHWAETLSL DVNSIHWSRN SVFTSQSDP CAPNEMKNMQ PGDVCCWICI PCEPYEYLAD EFTCMDCSG QWPTADLTGC YDLPEDYIRW EDAWAIGPVT IACLGFMCTC MVTVFIRHN NTPLVKASGR ELCYILLFGV GLSYCMTFFF IAKPSPVICA LRRILGSSF AICYSALITK TNCIARIFDG VNQAQRPKF ISPSQVFIC LGLILVQIVM VSVMLILEAP GTRRYTLAEK RETIVLKNV KDSMLISLT YDVLVILCT VYAFKTRKCP ENFNEAKFIG FTYMTTCIIW LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHILFQPK NVVTHRLHLN RFSVSGTGT YSQSSASTV PTVCNGREVL DSTSSSL </p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p> ccgagtga caggagtgagg agagggtagc agcatgggct acgcggttgg ctgccctcag A tccccctgct gctgaagctg cctgcccacg gccaccaccag gccgtggggc caggggctg ccagggtcag gagggtgacct gccgttcacg ggtctctagg gattcccgag atgacctgga agagaggctt gggctggttg gggcccgccg tggccctttg cctgctcctc agcctttacg gccccgtgat gccctcctcc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc gcatagatgg ggacatcaca ctgggaggcc tgttcccggg gcatggccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggctggag gccatgctgt tcgcccctgga tcgcatcaac aacgaccgg accctgtgcc taacatcacg ctgggcgccc gcatctgga cacctgctcc agggacaccc atgcccctga gcagtgcctg acctttgtgc agggcgtcat cgagaaggat ggacacaggg tccgctgtgg cagtggcggc ccaccatca tcaccaagcc tgaaagtggt gtgggtgtga tccgtgtctt agggagctcg gtctccatca tgggtggccaa catccttcgc ctcttcaaga taccacagat cagctacgcc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccc cgtgggtgcc tcggacacgt accaggccca ggccatggtg gacatcgtcc gtgcccctca gtggaactat gtgtccacag </p>	Homo sapiens

tggcctcggg ggcagctat ggtgagagcg gtgtggaggc cttcatccag aagtcccggtg
aggacggggg cgtgtgcatc gccagtcgg tgaagatacc acgggagccc aaggcaggcg
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ttgccaaacga ggtgacatc agcgtgtgc ttgagtcgagc acgaagggcc aaccagacag
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tggaggagggt ggctgagggt cgtgtcacga tctctcccaa gaggatgtcc gtacgaggct
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accgtgacct gtgtcccgcc gcgtggggc cgttctcagg catcgaggg aacctgtga
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aggccaagtc tgagctctgc gagaaccttg aggcaccagc gctggccacc aaacagactt
acgtcaacta caccacccat gcaatctagc gattccatgg agctgagcag caggaggagg
agcgtgacc ctgtggaagg tgcgtcgggc cagggccaca ccaagggcc cagctgtctt
gcctgcccgt gggcaccac ggacgtggct tgggtgtgag gatagcag ccccagcca
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gccaggctac cacaagaacc tgcgtcttgg accttccc ctcccggcc caaacacag
ggctcagggt cgtgtgggc ccagtgctag atcttccc ccttcgtct ctgtctgtgc
tgttggcgac ccctctgtct gtctccagcc ctgtctttct gtctcttat ctctttgtt

176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	<p>caccttttcc ctctctggcg tccccggctg cttgtactct tggccttttc tgtgtctcct tcttgctct tgccctccgc tctctctctc atcctctttg tccctcagctc ctctgctttt cttgggtccc accagtgta cttttctgcc gttttcttcc ctgttctcct ctgcttcatt ctcgccagc cattgctccc ctctccctgc cacccttccc cagttcacca aacctacat gttgcaaaag agaaaaaagg aaaaaaatc aaaaacaaa aaagccaaaaa gaaaaaaaa tctcagagt gtgccaagt gctgcgtcct cctggtggcc tctgtgtgtg tccctgtggc ccgcagcctg ccgcctgcc ccgccatct cccgtgtgtc ttgccgcct gccccgccg tctgccgtct gtcttgcccg cctgcccgcc tgcctcctc gccgaccaca cggagtccag tgccctgggtg ttbggtgatg gttattgacg acaatgtgta gcgcatgatt gttttatc caagaacatt tctaataaaa ataaacacat ggttttgcaa aaaa</p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p>MPGKRGGLGW WARLPLCLLL SLYGPMWPS LGKPKGHPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEGHRLE AMLFALDRIN NDPDLLNIT LGARILDTC RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGAGSS VSIMVANILR LFKIPQISYA STAPDLSDNS RYDFSRVVP SDTYQAQMV DIVRALKWNV VSTVASEGSY GESGVEAFIQ KSREDGGVCI AQSVKIPREP KAGEFDKIIR RLLETSNARA VIIFANEDDI RRVLEAARRA NQTGHFFWVG SDSWGSKIAP VLHLEVAEG AVTILPKRMS VRGFDRYFSS RTLDNNRNI WFAEFWEDNE HCKLSRHALK KGSHVKKCTN RERIGQDSAY EQGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPMDP VDGTLKKYI RNWNFSGIAG NPVTENGD APGRYDIQY QLRNDSAEYK VIGSWTDHLH LRIERHWPVG SQQLPRISIC SLPCQPGERK KTVKGMPCW HCEPCTGYQY QVDRYCTKC PYDMRPTENR TGCRRPIIK LEWSPWAVL PFLAVVFLG ATLEFVITFV RYNDTPIVKA SGRLESYVLL AGIFLCYATT FLMAEPDLG TCSLRRRIFLG LGMSISYAAL LTKTNRIYRI FEQKRSVSA PRFISPASQL AITFSLISLQ LLGICVWFV DPSHSVDFQ DQRTLDPRFA RGVLKCDISD LSLICLLGYS MLMVTCTVY AIKTRGVPE FNEAKPIGFT MYTTCIWLVA FIPIFFGTSQ SADKLYIQTT TLTVSVSLSA SVSLGMLYMP KVYIILFHE QNVPKRRKSL KAVVTAATMS NKFTQKGNFR PNGEAKSELC ENLEAPALAT KQTYVYTNH AI</p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p>acaaaatggc cctttagaaa atacatctga attgctggct aatttcttga ttgcgactc A aacgtaggac atcgcttgtt cgtagctatc agaaccctcc tgaattttcc ccaccatgct atctttattg gcttgactc ctttcctaaa atggtccttc tgttgatcct gtccagctta cttttgaaag aagatgtccg tgggagtga cagtcacagt agagaggggt ggtggtcac atgccgggtg acatcattat tggagctctc ttttctgttc atcaccagcc tactgtggac aaagttcatg agaggaaagt tggggcggtc cgtgaacagt atggcattca gagagtggag gccatgctgc ataccctgga aaggatcaat tcaagcccca cactcttgc caacatcaca ctgggctgtg agataaggga ctctgctg cctcggtg tggccctaga gcagagcatt gagttcataa gagattccct catttctca gaagaggaag aaggttgggt acgtgtgtg gatggctcct cctcttccct ccgctccaa gaggccatag taggggtcat tgggcctggc tccagtcttg tagccattca ggtccagaat ttgctccagc ttttcaaat accctcagatt gcttactcag caaccagcat ggtatctgagt gacaagactc tgttcaataa tttcatgagg gtttgtcctt cagatgtcga gcaggcaagg gccatggttg acatagtga gaggtaaac tggacctatg tatcagccgt gcacacagaa ggcaactatg gagaaagtgg gatggaagcc ttcaaaagata tgcagcgaa ggaagggtt tgcctgccc actttacaa aatctacagt</p>	Homo sapiens

aatgcagggg agcagagctt tgataagctg ctgaagaagc tcacaagtca ctgcccagg gatggccatg
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atctactttg gcagcaacta caaaatcatc acctgtgtt tctcgttcag cctcagtggc
acagtggccc taggtgcat gtttgtgccc aaggtgtaca tcatcctggc caaaccagag
agaaacgtgc gcagcgcctt caccacatct accgtgtgac gcatgcatgt aggggatggc
aagtcactct ccgagccag cagatccagc agcctagtc aactgtggaa gagaaggggc
tcctctgggg aaaccttaag ttccaatgga aaatccgtca cgtgggcccc gaatgagaag
agcagccggg ggcagcacct gtggcagcgc ctgtccatcc acatcaacaa gaaagaaaa
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178	3097	Metabotropic NP_000833.1 Glutamate Receptor 5	atccagttgc ccacgacccat gacgacccctt gccgaaaatcc agcctctgccc ggccatcgaa gtcacgggag ggcgcagacc cgcggcagg ggcgcagcgg ctgggacgag ggcgggagag agccccggg cgggtcccg ggcgcagacc ggcgcagcgg ggcgcagcgg ggcgcagcgg ctcaccccg cgtcccccct cagagactcg ggcgcagcgg ggcgcagcgg ggcgcagcgg agagattaca ctcagagctc ctcgctcgtt ggcgcagcgg ggcgcagcgg ggcgcagcgg ggtgagcgg cgcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg tacggcccg ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg tctcatgaca accacagaa accacagaa accacagaa accacagaa accacagaa tagaacatg gcttttaaga accacagaa accacagaa accacagaa accacagaa aacagttcca taccacactg ctcgctcgtt ggcgcagcgg ggcgcagcgg ggcgcagcgg agggtgaaga gcatagttta ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg ttcccccgt aaaaagttt ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg attcacaaa catgaatgta ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg cttttttct tctttttct ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg cctgaaaag cagtaactg ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg atacacact actgagatg ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg atttctctt ccaattgggt ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg ctacttattt cagattcacc ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg ttcacccatg tgccaatc ggcgcagcgg ggcgcagcgg ggcgcagcgg ggcgcagcgg	Homo sapiens
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179	3098	Metabotropic Glutamate Receptor 6	NM_000843	cgagggccg ggcaggccg ctgagctaac tcccagagc caaagtggaa ggcgcgcccc A gagcgcttc tcccaggac ccggtgtcc ctcctccgc cccgagcccc cgtctctctt ccccgccct cagagcgctc ccgccccctc tgtctcccc cagcccgcta gacgagccga tggcgcggcc ccgagagacc cgggagccgc tgcctgtggc gctgctgccc ctggcgtggc tggcgaggc gggcctggcg cgcgcggcg cgtctgtgg cctggcgggc ggcctgagcc tggcgggcct gttcccggtg cagcgcggg ggcgcggcg cgggctgtgc ggcgcgtga agaaggagca ggcgtgac cggtggag ccatgctga cgcgtggac cgcgtcaacg ccgacccga gctgtgccc ggcgtgccc tggcgcgcg gctgctggac acctgtcgc gggacaccta cgcgtggag caggcgtga gcttctgca ggcgtgatc cgcggccgcg gcgacggcga caggtgggc gtgcgtgcc cgggagcggt cctccgctg cgcctccgcg ccccgagcg cgtcgtggcc gtgcgtggcg cctcggccag ctcgctctcc atcatggtcg ccaacgtgt cgcctgttt gcgatacccc agatcagcta tgcctccaca gccccggagc tcagcgactc cacagctat gacttcttct cccgggtggt gccacccgac tctaccagg cgaggccat ggtggacatc gtgaggcac tgggatggaa ctatgtgtcc acgctggcct ccgagggcaa ctatggcga agtggggttg agccttctgt tcagatctcc cgagaggtg ggggggtctg tattgcccag tctatcaaga tccccaggga accaaagcca ggagagtcca gcaagtgat caggagactc atggagacgc ccaacgcccc gggcatcatc atcttgcca atgaggatga catcaggcgg gtccctggag cagctcgcca ggccaacctg accggccact tctgttgggt cggctcagac agctggggag ccaagacctc acctctcttg agcctggagg acgtggccgt tggggccatc acctctctg ccaaaagggc ctccatcgac ggatttgacc agtacttcac gactcgatcc ctggagaaca accgcaggaa catctggttc gccgagttct gggaagagaa ttttaactgc aaactgacca gctcaggtac ccagtcagat gattccacc gcaaatgcac agcgaggaa cgcctcgcc cgcctcgcc ctcagagcag gaggccaagg tgagtttgt gattgatcg gtgtatgcca ttgcccacgc cctccacagc atgcaccagg cgctctgccc tgggcaaca ggctgtgccc cggcgatgga acccaccgat gggcggatgc ttctgcagta cattcgagct gtccgcttca acggcagcgc aggaacccct gtgatgttca acgagaacgg gcatgcgccc gggcggtacg acatcttcca gtaccaggcg accaatggca gtgccagcag tggcgggtac caggcagtgg gccagtggc agagaccctc agactggatg tggaggccct gcagtgtct gcgaccccc cgcaggtgccc ctcgtctctg tgcagcctgc cctgcgggcc ggggagcgg aagaagatgg tgaaggcgt cccctgctgt tggcactgcg aggcctgtga cgggtaccgc ttccaggtgg acgagttcac atgcgagggc tgtcctgggg acatgaggcc cagcccaac cacacgggt gccgccccac acctgtggtg cgcctgagct ggtcctcccc ctgggcaagg ccgcgcctcc tccgtggcgt gctgggcatc gtggccacta ccacggtggt ggccacctc gtgcgttaca acaacacgc catcgtccg gccctgggcc gagagctcag ctacgtctc ctacaccgca tcttctcat ctacgccatc accttctca tgggtgctga gctggggcc gcggtctgtg ccgcccgcag gctcttctg ggcctgggca cgacctcag ctactctgccc ctgctacca agaccaaccg tatctaccgc atctttgagc aggggcaagc ctcggtcaca cccctccct tcatcagccc cactccacg ctggtcatca cctcagcct cactccctg caggtggtgg gatgatagc atggctgggg gcccgggccc cacacagcgt gattgactat gaggaacag gccgagcag ccccgagcag gccagagggg tgtcgaagt cgacatgtcg gatctgtctc tcatcggtcg cctgggctac agcctcctgc	Homo sapiens
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180	3098	Metabotropic NP_000834.1 Glutamate Receptor 6	<p> tgggcctctc tggcaggaac tctgatgcac cgcgaggccc atgtactcct gtggctttct cacattcggt ctacttgag ggtatctcca cagcatgcac cactctgggt acaggggag atcctctggt actgaagatg ttgtcatatt tagtaccttc acaaggtttc tctcctcca gaattttctg atgtacacaa ataactgact tccacaagag ggcttttcca cactcgggtg gtgcatacag ttctgcctg tgatcattc tttatgttat tttttattt ttcgagata gggtcttgct caatttctta ggctggagt cagtggcacg atcatagctc actgaagttt cgacctgggc tcaagcaatc ctcccgcttc agcctcctga gtagctgggt cgcacgacca taccagcta atgttttatt tttgttagag acgaggtctc actatgttc ccagctgggt ctcgaacttc tgagctcgag cgatcctcct gcctccacct cccaaagtgt tcggattaca aacgtgagcc atcgacaccta gcctcttga tcatttctgt ggtgttcagt gggggttgac agctccctaa agattttcct gtttttttgc atgcatgggt ttgaattcct tgagggtccaa tttatttga ccctgaata aggttttctg ggttttctc tatgtgtgga attatatagg cattctcca gbtgggttc tcttatgtcg agtgagagct gaactgcacc gaagtgtgct ccatttctg ccttgaatt atctgtatga attatatgtt ccagtgaata tggagttctg ggttgaggc ttattccatg ttacacacat taaaattgca gtgttcctct ctgggatgag agctctaaag cagagtaaga ttacgttctg atgtaagctt taaccaccta ttataaggt ctcactgtg gtcactgtg ttgagacttc tacagaagag ctctgtgata gtaaccattt tcttaggctg tctcacttgt gtgaattctc tgacacattt attatagctt tgtccattt cttatccttt ttgctcttta gaaatttccc ttttaatttat tacatttcatt gcttactgta aagagtcacg gtaactgact ttaattcaag ttacttctg ttcaataaat ttaacttttc cc </p>	Homo sapiens
181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> KKEQGVHRL EAMLYALDRN ADPELLPGVR LGARLDTCS RDTYALEQAL SFVQALIRGR GDGDEVGVR PGVPPLRPA PPERVAVVG ASASSVSIMV ANVRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNYVSTLA SEGNYGESGV EAFVQISREA GGVCIAQSIK IPREPKEGEF SKVIRRLMET PNARGIIIFA NEDDIRRVLE AARQANLTGH FLWVGSDSWG AKTSPILSLE DVAVGAITIL PKRASIDGFD QYFMTSLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKCTGEERIG RDSTYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LLQYIRAVRF NGSAGTPVME NENGDAFGRY DIFQYQATNG SASSGGYQAV GQWAEIIRLD VEALQWSDP HEVPSSLSCL PCGGERKKM VKGVPCWHC EACDGYRFQV DEFTCEACPG DMRTPNHTG CRPTPVVRLS WSSPWAAPPL LLAVLGIVAT TTVVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAAVC AARRLFLGLG TTLSYSALLT KTNRIYRIFE QGKRSTVPPP FISPTSQLVI TFSLSLQW GMIAWLGRAP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGLCGYSLL LMVCTVYAI KARGVPETFN EAKPIGFTMY TTCIIWLAFV PIFFGTAQSA EKIIYIQTTL TVSLSLASV SLGMLYVPKT YVILFHPEQN VQKRKRSLKA TSTVAAPPKG EDAEAHK gaattcccaa caccacagta attttgtat ttttagtaga gattgggttt caccatgttg A gocaggatgg tctccatctc ttgacctcg gatcctcctg gcttggtctc caaaagtgtc gggattacag ccagtagtca ccatatccag ccaactgcag tcattcttat ggggcaaa cttggtctga cccaggtttt ctaaagatac aaacccatgg gcaacaccaa gcatctta ggaataggca cctggctgac tccaggcatt ctaataatag agacacctgg gcgaactcag </p>	Homo sapiens

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182	3099	Metabotropic NP_000835.1 Glutamate Receptor 7	tactgtgtat gccatcaaga ctgggggtgt acccgagaat tttaacgaag ccaagcccat tggattcaact atgtacacga catgtatagt atggcttgcc ttcattccaa ttttttttgg caccgctcaa tcagcggaag agctctacat acaaaactacc acgcttacaa tctccatgaa cctaagtga tcaagtggcg tggggatgct atacatgccg aaagtgtaca tcatcatttt ccacctgaa ctaaatgtcc agaaacggaa gcgaagcttc aaggcggtg tcacagcagc caccatgtca tcgaggtgt cacacaaacc cagtacaga ccaacgggtg aggcaaaagac cgagctctgt gaaaacgtag acccaaacag cctgtctga aaaaagaagt atgtcagtta taataacctg gttatctaac ctgttccatt ccatggaacc atggaggagg aagaccctca gttattttgt caccacact gccataggac tctttgttc taccgcttc ccatcacgg aggagcttcc cggccgggga gaccagtgt agaggatcca agcagactaa acagtgtctt tatgaaatat ccttacttta tctgggctta ataagtcact gacatcagca ctgccaactt ggctgcaatt gtggaccttc octaccaaag ggagtgtga aactcaagtc cgcgcccgcc tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg tatgtacttc taggttgcaa ggttttgaaa tttctgttac agttgtgag gacctttgca ctttgccatc tgatgtgta cctcgggtca ctgtttgttt tgaatgcct tgttttcata gagccctatt ctctcagag gtggaatatt tggaaaaatt ttaaaaaaat taaaatttta aagcaatctt gccagactaa acaagatca tctgtacatg actgtataat tacgattata gtaccactgc acatcatgtt ttttttttt aagacaaaa agatgtttta agacaaaaa ctgtgtgag aaagtatgcc ccacctatct ttgttatatg ataggttaca taaaaggaag gtattggctg aactgaatag aggtcttgat ctttggaatg catgccagta atgtatttta cagtacatgt ttattatgtt caatatttgt atttgtgttc tctttgtta ttttaatta gggtatatga atattttgca ataattttta taattattaa gctgtttgaa ggaagaata tggatttttc atgtcttgag gttttgttca tgcacctttt gactgacag tgtgataaag actttaggaa aaaaagcatg tatgtttttt actgttttga taaagtactt tcgttaactt tctgtcttat gtgccaattt agtgaaaaa acaaaccttt gctgaaaaat tccctctttc cattctcttt caattctgtg atattgtcca agaattgtat aataaggaaat tc GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDNLLPNVT LGARILDTC RDTYALEQSL TFVQALIQKD TSDVRCNTE PPVFKPEKV VGVIGASGSS VSIMVANIIR LFQIPQISYA STAPELSDDR RYDFFSRVVP PDSFQAQAMV DIVKALGWNY VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIPQER KRTIDFDRI IKQLDTPNS RAVVIFANDE DIKQILAAAK RADQVGHFLW VGSDSWGSKI NPLHQHEDIA EGATTIQPKR ATVEGFDAF TSRTLENNRR NVWFAEYWEE NFNCKLTISG SKKEDTRKC TQBERIGKDS NYEQEGKVQF VIDAVYAMAH ALHNMNKDLC ADYRGVCPEN EQAGGKLLK YIRNVNFGS AGTPVMFNKN GDAPGRYDIF QYQTTNTSNP GYRLIGQWTD ELQLNIEDMQ WGKGVREIPA SVCTLPCKPG QRKTKQKTP CCWTCEPCDG YQYQFDEMC QHCPYDQRP ENRTGCQDIP IIKLEWHSP AVIPVFLAML GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIKX DVAVCSFRRV FLGLGMCISY AALLTKTNRI YRIFEQKKKS VTAPRLISPT SOLAITSLI SVQLLGVIW FGVDPNIII DYDEHKTMNP EQARGVLKCD GTDILQICSL GYSILLMVT TVYAIKTRGV PENFNEAKPI GFTMYTTTCIV WLAFIPIFFG TAQSAEKLYI QTTTLTISMN LSASVALGML YMPKVYIIIF HPENLVQKRK RSFKAVTAA TMSRLSHKP SDRPNGEAKT ELCENVDPNS	Homo sapiens
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183	3100	Metabotropic Glutamate Receptor 8	PAAKKKYVS Y NNLVI	Homo sapiens
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			atcccgaca cgtgctctag ggacacctat gctttggagc agtctctaac attcgtgcag	
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			gttgctaaca ttttaagact ttttaagata cctcaaatca gctatgcatc cacagcccca	
			gagctaagtg ataacaccag gtatgacttt ttctctcgag tggttccgcc tgaactctac	
			caagcccaag ccatggtgga catcgtgaca gcaactgggat ggaattatgt ttcgacactg	
			gcttctgagg ggaactatgg tgagagcggg gtggagggcct tcaccagat ctcgaggag	
			attggtgggtg tttgcattgc tcagtcacag aaaaatccca gtgaaccaag acctggagaa	
			tttgaaaaaa ttatcaaacg cctgctagaa acacctaattg ctcgagcagt gattatgttt	
			gccaatgagg atgacatcag gaggatatg gaagcagcaa aaaaactaaa ccaagtggg	
			cattttctct ggattggctc agatagtgg ggatccaaaa tagcacctgt ctatcagcaa	
			gaggagattg cagaaggggc tgtgacaatt ttgcccacac gacatcaat tgatggattt	
			gacgatact ttagaagccg aactcttgc aataatcgaa gaaatgtgtg gtttcagaa	
			ttctgggagg agaattttgg ctgcaagtta ggaacacatg gaaaaggaa cagtcataa	
			aagaaatgca cagggttgga gcgaattgct cgggattcat ctatgaaca ggaaggaaaa	
			gtccaatttg taattgatgc tgtatatcc atggcttacg ccttgacaa tatgcacaaa	
			gactctgcc ctggatacat tggcctttgt ccacgaatga gtaccattga tgggaaagag	
			ctacttgggt atattcgggc tgtaaaattt aatggcagtg ctggcactcc tgtcaccttt	
			aatgaaaaac gagatgctcc tggacgttat gatattcttc agtatcaaat aaccaacaaa	
			agcacagagt acaaagtcat cggccactgg accaatcagc ttcatctaaa agtggaaagac	
			atgcagtggg ctcatagaga acatactcac cggcgtctg tctgcagcct gccgtgtaag	
			ccaggggaga ggaagaaaaa ggtgaaaggg gtcccttgtc gctggcactg tgaacgctgt	
			gaaggttaca actaccaggt ggatgagctg tccctgtgaa tttgccctct ggatcagaga	
			cccaacatga accgcacagg ctgccagctt atccccatca tcaaatgga gtggcattct	
			ccctgggctg tgggtcctgt gtttgttgca atattgggaa tcatcgccac cacctttgtg	
			atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acgcgaactt	
			agttacgtgc tcctaacggg gatttttctc tgttattcaa tcacgttttt aatgattgca	
			gcaccagata caatcatatg ctcttccga cgggtcttcc taggacttgg catgtgtttc	
			agctatgcag cccttctgac caaaacaaac cgtatccacc gaattattga gcaggggaaag	
			aaatctgtca cagcgcccaa gttcattagt ccagcatctc agctgggtgat caccttcagc	
			ctcatctccg tccagctcct tggagtgttt gtctgggttg tttgtggtcc cccccacatc	
			atcattgact atggagagca gggacacta gatccagaga aggccagggg agtgcaccaag	
			tgtgacattt ctgatctctc actcatttgt tcaatttgat acagtatcct ctgtatggtc	

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	actgttactg ttatgcca taaacagaga ggtgtccag agactttcaa tgaagccaaa cctattggat ttaccatgta taccacctgc atcatttgggt tagctttcat ccccatcttt tttggtacag ccagtcagc agaaaagatg tacatccaga caaacacact tactgtctcc atgagtttaa gtgctcagat atctctgggc atgtctctata tgcacaaggt ttatatata atctttcatc cagaaacagaa tgttcaaaaa cgcagaagga gcttcaaggc tgtggtgaca gctgccacca tgcagaagcaa actgatccaa aaaggaaatg acagaccaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaaccc aacacttctc ctaccaagac aacatatatc agttacagca atcatcaat ctgaacacag gaaatggcac aatctgaaga gacgtgggtat atgatcttaa atgatgaaca tgagaccgca aaaaattcat cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aaggaaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaacccgt ttatacaat aaaccaatg agtgtcaagc taaagtattg cttattcatg agcagttaaa agcagttaaa aaggaacaaa taatgttagc tcgtgaaaaa aatgctgttg aaataataa tgcctgagtg tattcttgta ttttctgtg attgtgagaa ctcccgctcc tgtccacat tgtttaactt gtataagaca atgagtcgtg ttcttgtaat ggctgaccag attgaagccc tgggtgtgac taaaaataaa tgcaatgatt gatgcagtga atttttata caataaattt atttctaata ataaaggaat gttttgcaaa aaaaaaaa aaaaactcga g	THSQEYAHSI RVGDIIILGG LFPVHAKGER P DILLSNITLGV RILDTCSRDT YALEQSLTFV IGAAASSVSI MVANILRLFK IPQISYASTA TALGNVYVST LASEGNYGES GVEAFTQISR ETPNRAVIM FANEDDIRRI LEAAKLNQS ILPKRASIDG FDRYFRSRTL ANRRNVWFA ARDSSYEQEG KVQFVIDAVY SMAYALHNMH FNCSAGTPVT FNENGDAFGR YDIFYQITN HPASVCSLPC KPGERKKTVK GVPCCWHCER LIPIIKLEWH SPWAVVPFV AILGIIATTF AAPDTIICSF RRVFLGLGMC SLISVQLLGV FVWFVDDPPH VTCTVYANKT RGVPTFNEA CSLGYSILIM MYIQTTLTV GMLYMPKVYI SMLSASVSL VKSELCEISLE TINTSTKTTY	Homo sapiens
185	3212	Opioid mu- type Receptor	ggaattcccg ctataggcag aggaagaatg cagatgctca gctcgggtccc ctccgcctga A cgctctctc tgtctcagcc agactgggtt tctgtaagaa acagcaggag ctgtggcagc ggcgaaagga agcggctgag gcgcttgaa cccgaaaaagt ctcgggtgctc ctggctacct cgcacagcgg tgcccgcccg gccgtcagta ccatggacag cagcgtgcc cccacgaacg ccagcaattg cactgatgcc ttggcgtact caagtgcag cccagcccc agccccggtt cttgggtcaa cttgtccca ttagatggca acctgtccga cccatcggtt ccgaaccgca ccaacctggg cgggagagac agcctgtgcc ctccgaccgg cagtcctccc atgatcacgg ccatcacgat catggccctc tactccatcg tgtggtggtt ggggctcttc ggaacttcc	g FYWILTMQR THSQEYAHSI YALDQINKDP DLLSNITLGV FTKPDKISGV IGAAASSVSI YQAQAMDIV TALGNVYVST EFEKIIKRL ETPNRAVIM QEEIAEGAVT ILPKRASIDG IKKCTGLERI ARDSSYEQEG ELLGYIRAVN FNCSAGTPVT DMQWAHREHT HPASVCSLPC RPNMRTGCQ LIPIIKLEWH LSYVLLTGIF LCYSITFLMI KKSVTAPKFI SPASQLVITF KCDISDLSLI CSLGYSILIM FFGTAQSAEK MYIQTTLTV TAATMQSKLI QKGNDRPNGE	Homo sapiens

186	3212	Opioid mu-type Receptor	NP_000905.1	MDSSAAPTNA PTGSPSMITA ITIMALYSIV LMGTWPFGTI STLRFQSVNY RTPRNAKIIN VCNWILSSAI GLPVMFMATT KYSRQSIDCT LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	SCSPAPSPGS CWVGLFGNFI LCKIVISIDY GLPVMFMATT KYSRQSIDCT LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	WVNLHLSDGN VMXVIVRYTK YNNFTSIFTL KYPQSIDCT LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	LSDPGPNRT MKTATNIYIF CTMSVDRIYA VCHPVKALDF LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	Homo sapiens
187	3223	Muscarinic acetylcholine Receptor M1	NM_000738	MDSSAAPTNA PTGSPSMITA ITIMALYSIV LMGTWPFGTI STLRFQSVNY RTPRNAKIIN VCNWILSSAI GLPVMFMATT KYSRQSIDCT LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	SCSPAPSPGS CWVGLFGNFI LCKIVISIDY GLPVMFMATT KYSRQSIDCT LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	WVNLHLSDGN VMXVIVRYTK YNNFTSIFTL KYPQSIDCT LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	LSDPGPNRT MKTATNIYIF CTMSVDRIYA VCHPVKALDF LTFESHETWYW ENLVKICVFI TRMVLVVAV FIVCWTPHI LDENFKRCFR EFCIPTSSNI NLEAETAPLP	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p>tggtggccc tggactatgt ggcagcaaat gctccgtca tgaatctgt gtcactcagc tttgaccgt acttctcgt gactegccc ctgagctacc gtgccaagcg cacacccgc cgggcagctc tgatgatcg cctggcctgg ctggtttcct ttgtgctcg ggcaccagcc atcctctctt ggcagctacc gtaggggag cggacgatgc tagctgggca gtgtacatc cagttcctct cccagcccat catcaccttt ggcacagcca tggctgctt ctactccct gtcacagtca tgtgacgct ctactggcg atctaccgg agacagagaa cggagcacgg gagctggcag ccttcaggg ctccgagagc ccaggcaaa ggggtggcag cagcagcagc tcagagaggt ctgagccagg gctgagggc tcaccagaga ctctccagg ccgtgctgt cgctgctgc gggcccccag gctgctgag gctacagct ggaaggaaaga agagaaagag gacgaaggct ccatggagtc cctcacatcc tcagaggag aggagcctgg ctccgaagt gtgatcaaga tgccaatggt ggaccgcag gcacaggccc ccaccaagca gcccacagg agctccccc atacagtcaa gaggcgact aagaaaggcg gtgatcgagc tggcaaggcg cagaagccc gtggaagga gcagctggc agcggaaga ccttctcgt ggtcaaggag aagaaggcg ctcggaccct gactgacct ctcctggcct tcactctcac ctggacaccc tacaacatca tggctgctgt gtccacctc tgcaaggact gtgtcccgga gacctgtgg gagctgggct actggctgtg ctactcaac agcaccatca accccatgtg ctacgcactc tgcaacaaag ccttccggga caccttctgc ctgctgctg tttgcccgtg ggacaagaga cgctggcgca agatccccc gagccctggc tccgtgcacc gcactccctc ccgccaatgc tga</p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p>atgaataact caacaaactc ctctaacaat agcctggctc ttacaagtcc ttataagaca A tttgaagtg tgttattgt cctggtggct ggatccctca gtttggtagc cattatcggg aacatcctag tcatggtttc cattaaagtc aaccgccacc tccagaccgt caacaattac ttttattca gcttggcctg tctgacctt atcatagggt tttctccat gaacttgcac acctctaca ctgtggcctg ttactggcct ttgggacctg tgggtgtga cctttggcta gccctggact atgtggtcag caatgcctca gttatgaatc tgctcatcat cagctttgac aggtacttct gtgtcacaaa acctctgacc taccagtcga ageggaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcttc tctttcatcc tctgggctcc agccattctc ttctggcagt tcatgttagg ggtgagaact gtggaggatg gggagtgcata cattcagttt ttttccaatg ctgctgtcac ctttggtagc gctattgcag cctctattt gccagtgcac atcatgactg tgctatatgg gcacatacc cgaagccagca agagcaggat aaagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gtctggtaca aggaaggata gtgaagccaa acaataacaa catgcccagc agtgacgatg gcttggagca caacaaaaatc cagaatggca aagccccag ggtcctgtg actgaaaaact gtgttcaggg agaggagaag</p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	<p>gagagctcca atgactccac ctcaagtcaat gctgttgctt ctaatatgag agatgatgaa ataacccagg atgaaaacac agtttccact tccctgggcc attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccagg acccaaaaa gtgactcatg taccaccaact ataaccacgg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcctgcaa aaaaagagcc tctccttcc cgggaaaaaga aagtcaccag gacaattctg gctattctgt tggctttcat catcacttgg gccccatata atgtcatggt gctcattaac accctttgtg cactttgcat ccccaaacat gtgtggacaa ttggttactg gctttgttac atcaacagca ctatcaaccc tgcctgctat gcactttgca atgccacctt caagaagacc tttaaacacc ttctcatgtg tcattataag acataaggcg ctacaaggta a</p>	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	<p>FLFSLACADL IIGVFSMNLV FEVVFIVLVA GSLSLVTIIG NILVMVSIKV NRHLQTVNNY P RYFCVTKPLT YPVKRTTKMA GMIAAAWVL SFILWAPAIL FWQFIVGVRT VEDGECYIQF FSNAAVTFTG AIAAFYLPVI IMTVLYWHIS RASKSRIKKD KKEPVANQDP VSPSLVQGR VKPNNNMPS SDDGLEHNI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRDDE ITQDENTVST SLGSHKDENS KQTCIRIGTK TPKSDSCTPT NTVVGVSS GQNGDEKQNI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILLAFIITW APYNVMVLIN TFCAPCIPT VWTIGYWCY INSTINPACY ALCNATFKKT FKLLLMCHYK NIGATR CCTGGCAGTG CCGATGTTCC GATACTGGCA CAGCAGCAGG TGCCGGAAGG TCTTTTTTAA A GGTGGCGTGG CACAGAGCAT AGCAGGCAGG GTTGATGGTG CTGTTGACGT AGCAGAGCCA GTAGCCCAATG GACCACACCG GGTGAGGAT GAGACTCTGG CAGAAGTGT TCACCAGGAC CATGACGTTG TGAGCGCTCC CGGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTCG TGGCACTTTG CGTCCCGGG CCCGACTCTG CCGCTTCTTG CGCACCTGGG TGCGAGCGGT GCTAGCGAAC TTGCGGGCCA CGTTGGCCG AGCGGCATGC CAGNCGGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGCTTCG TCAAATTTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGCCCCCGG CTCGGACTTG CGGGCATGAA TCCAGGCCCT ACTCTANAGG ATCCCCCCT CTCC</p>	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	<p>atggccaact tcacacctgt caatggcagc tcgggcaatc agtccgtgag cctggtcacg A tcatcatccc acaatcgcta tgagacgggt gaaatgggtct tcattggcac agtgacaggg tccctgagcc tggtagctgt cgtgggcaac atcctgggtga tgggtgctcat caaggtcaac aggcagctgc agacagtcga caactacttc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgctt tctccatgaa cctctacacc gtgtacatca tcaagggtca ctggccccgtg ggcgccgtgg tctgcgacct gtggctggcc ctggactacg tggtaggcaa cgctccctgc atgaaccttc tcatcatcag ctttgaccgc tacttctgag tcaccaagcc tctcacctac cttgccccgc gcaccacca gatggcaggg ctcatgattg ctgctgctg ggtactgtcc ttcgtgctct gggcgccctgc catcttgctt tggcagtttg tggtaggtta gcggacgggtg ccgacacacc actgcttcat ccagtttctg tccaacccag cagtgaacctt tggcacagcc attgctgctt tctacctgcc tgggttcate atgacgggtgc tgtatacca catctccctg gccagtcgca gccagtcaca caagcacggg ccgaggggccc cgaaggagaa gaaagccaa acgctggcct tctcaagag cccactaatg aagcagagcg tcaagaagcc ccgccccgga ggcgccccgg gaggactgag caatggcaag ctggaggagg cccccccgag agcgctgcca</p>	Homo sapiens

185/448

Homo
sapiens193 3226 Muscarinic NP_000732.1 acetylcholin
e Receptor
M4

ccgccaccgc gccccgtggc tgataaggac. acttcaaatg agtccagctc aggcagtgcc
 accagaaca ccaaggaacg cccagccaca gagctgtcca ccacagaggc caccactccc
 gccatgccg cccctccct gcagccgcg gccctcaacc cagctccag atggtccaaag
 atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgcct
 gccagccgg ctggcatg cctggcgcc aactgtgccc gcaagtgc cagcatcgct
 cgcaaccagg tgcgcaagaa gcggcagatg gcggccggg agcgaagt gacacgaacg
 atctttgcca ttctgtagc ctctacctc acctggagc cctacaacgt catggtcctg
 gtgaacacct tctgccagag ctgcatccct gacacgggtg ggtccattgg ctactggctc
 tgctacgtca acagcaccat caacctgccc tgctatgctc tgtgcaacgc cactttaaa
 aagaccttc ggcacctgct gctgtgccag tatcggaaca tcggcactgc caggtag

194 3227 Muscarinic NM_012125 Acetylcholin
e Receptor
M5

MANETPVNGS SGNQSVRLVT SSSHRYETV EMVFIATVTG SLSLVTVGN ILVMSIKVN P
 RQLQTVNNYF LFLACADLI IGAFSMNLYT VYIIKGWPL GAVVCDLWLA LDYVVSNASV
 MNLLIISFDR YFCVTKPLTY PARTTKMAG LMIAAAWVLS FVLWAPAILF WQFVVGKRTV
 PDNHCFIQFL SNPALTGTA IAAFYLPVVI MTVLYIHISL ASRSRVHKHR PEGPEKKAK
 TIAFLKSPLM KQSVKKPRPG GRPGLRNGK LEEAPPALP PPPRPVADKD TSNESSGSA
 TQNTKERPAT ELSTTEATTP AMPAPPIQPR ALNPASRSWK IQIVTKQTGN ECVTAIEIVP
 ATPAGMRPAA NVARKFASIA RNQVRKKRQM AARERKVTRT IFAILLAFIL TWTPYVMVL
 VNTFCQSCIP DTVWSIGYWL CYVNSTINPA CYALCNATEK KTFRHLILCQ YRNIGTAR

Homo
sapiens194 3227 Muscarinic NM_012125 Acetylcholin
e Receptor
M5

atggaaggcg attcttacc caatgcaacc accgtcaatg gcacccagc aaatcaccag A
 cctttggaac gccacaggtt gtgggaagtc atcacattg cagctgtgac tgctgtggtgta
 agcctgatca ccatgtggg caatgtcttg gtcatgctt ccttcaaatg caacagccag
 ctcaagacag ttaacaacta ttacctgtc agcttagctc gtgcagatct catcatggga
 atctttcca tgaacctcta caccactac atctctcgtt gacgtgggc tctcgggagt
 ctggcttgtg acctttggct tgcactggac tacgtggcca gcaacgcttc tgtcatgaac
 ctctcgtgta tcagttttga ccgttacttt tccatcaca gaccttgac atatcgggccc
 aagcgtactc cgaagaaggc tggcatcatg attggcttgg cctggctgat ctcttcatc
 ctctggggcc cagcaatcct ctgctggcag tacttgggtg ggaagcggac agttccactg
 gatgagtgc agatccagtt tctctctgag ccacacatca ctttggcac tggcatgtct
 gccttctaca tccctgttcc tgtcatgacc atcctctact gtgaaatcta ccgggaaaca
 gagaagcga ccaaggacct ggctgacctc cagggttctg actctgtgag caaagctgag
 aagagaaagc cagctcatag ggctctgttc agatcctgct tgcgtgttcc tcgacccacc
 ctggccccc gcgaaaggaa ccaggccctc tggctcatcct ccgcaggag cactccacc
 actgggaagc catcccaagc cactggccca agcgccaatt gggccaaagc tgagcagctc
 accacctgta gcagctaccc tctctcagag gatgaggaca agccgcacc tgacctgtc
 ctccaaagtg tctacaagag tcagggtgaa gaaagccag ggaagaatt cagtgtgaa
 gagactgag aacttttgt gaaagctgaa actgaaaaa gtgactatga caccctcaac
 taccttctgt ctccagcagc tgctcataga cccaagagtc agaatgtgt ggcctataag
 ttcgatttgg tggtaaaagc tgacgggaac caggagacca acaatggctg tcacaagtg
 aaaatcatgc cctgcccctt ccaagtggcc aggaacctt caacgaaagg cctcaatccc
 aacccagcc atcaaatgac caacgaaag agagtgttcc tagtcaaaaga gaggaagca
 gccagacac tgagtggcat tctcctggcc ttcattcatca catgacccc gtataacatc

195	3227	Muscarinic Acetylcholin e Receptor M5	NP_036257.1	<p>atgggtcctgg tttctacctt ctgtgacaa tagcactgtc aaccccatct tgcattgctg gcacttgggc tattggtgtg gctatgtcaa tagcactgtc aaccccatct gctatgacct ctgcaacaga accttcagga agacctttaa gatgtgctt ctctgccgat ggaaaaagaa aaaagtggaa gagaagtgtg aacggcagga gacacagaa ctaccctga MKGDSYHNAT TVNGTPVNHQ PLEHRLWEV ITIAAATAV SLITIVGNVL VMISFKVNSQ P LKTWNYYLL SLACADLIIG IFSNMLTTY ILMGRWALGS LACDLWLALD YVASNASVMN sapiens LLVISFDRYF SITRPLTYRA KRTPKPRAGIM IGLAWLISFI LMAPAILCWQ YLVGKRTVPL DECQIQFLSE PTITFGTAIA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRALE RSCLRCRPT LAQRERNQAS WSSRRSTST TKGPSQATGP SANWAKAEQL TTCSSYPSE DEDKPADPV LQVVKSQGK ESPGEESAE ETEETFVKA TEKSDYDTPN YLLSPAAHR PKSQCVAIK FRLVVRADGN QETNNGCHKV KIMPCFPFVA KEPSTKGLNP NPSHQMTKRK RVVLVKERKA AQTLSAILLA FIITWTPYNI MVLVSTFCDK CVPVTLWLHG YWLVCYNSTV NPICYALCNR TFRKTFKMLL LCRWKKKKVE EKLWQGNLSK LP Homo sapiens</p>	<p>196</p>	3378	Tachykinin Receptor 3	NM_001059	<p>ctattgcagt atctttcagc ttccagtctt atctgaagac cccggcacc aagtgaccag A gaggcagaga agaacttcag aggagtctcg tcttgggctg cccgtgggtg agtgggaggg tccgggactg cagaccgtg gcgatggca ctctccagc agcagaaacc tggatagacg gggtggagg cgtgggtgca gacgctgga acctgaccg ctgctagct gccggggcgg ccacgggggc agttgagact gggtggctgc aactgctgga ceaagctggc aacctctct cctcccttc cgcctggga ctgctgtgg cttcccccgc gccctcccag ccttggggcca acctcaccaa ccagttcgtg cagccgtctt ggccatcgt gctctgggtc ctggcgtatg gtgtgggtgt ggcagtggca gttttggga acctggtgc atctggatc atctggccc acaagcgcat gaggactgc accaactact tcttctgaa cctggcttcc tccgacgctt ccatggccgc cttcaacacg ttggtcaatt tcatctacgc gcttcacagc gactgggtact ttggcgccaa ctactgcgc tccagaaact tcttctctat cacagctgtg ttcgcccagca tctactccat gacggccatt gcggtggaca ggtatatggc tattatgtat ccttgaagc ccagactgtc tgcacagca accaagattg tcatggaaag tatttggatt ctgacatttc tacttgcctt cctcagctg cttatttcca aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccaaac aacatttccac ttaccatatt atcgtcata tactgtgtga ctgtttccca ttgctcata tgggtattac ataccattt gttggaatta ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg ccaaaagaaa ggtgtcaaa atgatgatta ttgttgcac gacatttgc atctgctggc tgcctatca tatttacttc attctcactg caatctatca caaactaat agatggaaat acatccagca ggtctacctg gctagctttt ggtggcaat gactcaacc atgtacaatc ccatcatcta ctgtgtctg aataaaagat ttcgagctgg cttcaagaga gcatctcgt ggtgtccttt catcaaaagt tccagctatg atgagctaga gctcaagacc accaggttcc atccaaaccg gcaagcagc atgtacacg tgaccagaat ggagtcctatg acagtcgtg ttgaccccaa cgatgcagac accaccaggt ccagtcgga gaaaagagca acgccaagag accaagttt caatggctg tctgcagga attccaaatc tgcctccgc acttcaagtt tcataagctc acctatacc tctgtggatg aatatttcta attccatttc ctgaggtaaa agattagctg gagaccatca ttgtgcccag ttaggacccc attctctat ttatcagctc tgtcctatat accctctaga aacagaaagc aattttagg cagctatggt caaatggaga</p>
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Accession	Gene	Protein	Sequence	Species
197	Tachykinin Receptor 3	NP_001050.1	<p>aaggtagtgt ataaatgtga caaagacaact ataacaatgt tagcctccac ccaaaataaa atgggcttta aattt</p> <p>MATLPAKETW IDGGGSGVAD AVNLTAALAA GAATGAVETG WLQLLDQAGN LSSPSALGL P PVASPAAPSQP WANLTNQFVQ PSWRIALWSL AYGVVAVAV IGNLIVIIWII LAHKRMRTVT NYFLVNLAFS DASMAENTAT VNFYIALHSE WYFGANVCRF QNFFPITAVF ASIYSMTAIA VDRYMAIIDP LKPRLSAENTL KIVIGSIWIL AFLLAFPQL YSKTKVMPGR TLCFVQWPEG PKQHFTYHII VIILVYCFPL LIMGITYTIV GITLWGGEIP GDTCDKYHEQ LKAKRKVVKM MIIVMTFAI CWLPYHIYFI LTAIYQQLNR WKYIQVYLA SFWLAMSSTM YNPIIYCCLN KRFRAGFKRA FRWCPIKVS SYDELELKT YTRPNRQSSM YTVTRMESMT VVFDPNDA DT TPSSRKRRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS</p>	Homo sapiens
198	Neuromedin B Receptor	NM_002511	<p>gtgctgtgag gcttgccgc ggacagtaaa cttgcagggg cgagagggag ggacatcgat A taaacctaaa tctgtggcgt tcagtcctca ggcgcacgag cgcgtgaaa ctcagcggga ctctgtctga agggagatca tgccctctaa gtctctttcc aacctctcgg tgaccaaccg cgcgaatgag agcggttccg ttcccagggg gtgggaaaag gatttcctgc cgccctcgga cgggaccacc acggagtgg tgatccgctg tgatcccggt tccctctacc tgctcatcat cacgtgggc ttgctgggca acatcatgct acatctctaa cctggcggcc ggggacttgc tgctgctgt gagagcgct cccaacatct tcattctctaa cctcgcgcta cttcttcgac gactggatgt ttggcaaggt cactgcgtc cgggtggag ctgataccctg tcatccagct cacttccgtg ggggtttccg tgttcaactc gggtgcaaaa ctgataccctg ggtacagagc catcgttaac cccatggaca tgcagacgtc cactgcccctc agcgcgcaca gtgtgaaggc catgggttaac tgggtgggtct ceggtgtgtc aggggcatgg ctgcggacct gtgtgaaggc catgggttaac tgggtgggtct ceggtgtgtc ggcagttccc gaagcgggtgt tttcagaagt ggctcgcatc agtagcttgg ataatagcag cttcacagca tgtatcccat acctcaaac agatgaatta catccaaaga ttcattcagt gtcatttttc ttggtctatt tctcatacc acttgcattt attagcattt attattatca tattgcaaa accttaatta aaagcgaca caatcttctt ggagaataca atgaacatac caaaaacag atggaacac ggaacgcct ggctaaaatt gtgctgtct ttgtgggctg tttcatcttc ttgtggttc caaacacat cctttacatg tctcggtctt tcaactataa tgagattgat ccatctctag gccacatgat tctcacctta gttgccggg ttctcagttt tggaattct ttgttcaacc catttgcctt ttacctactc agtgaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtctctcaa gagagaggaa ccagctacac actcagctct tcagcgggtgc gtatgacatc tctgaaaagc aatgctaaga acatggtgac caattctgtt ttactaaatg gccacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa</p>	Homo sapiens
199	Neuromedin B Receptor	NP_002502.1	<p>MPSKSLSNLS VTTGANESGS VPEGWERDFL PASDGTTEL VIRCVIPSLY LLITVGLLG P NIMLVKIPIT NSAMRSVPNI FISNLAAGDL LLLLTCTVPVD ASRYFDEWM FGKVGCKLIP VIQLTSVGS VFTLTALSAD YRAIVNPMQ MTSGALLRT CVKAMGIWV SVLLAVPEAV FSEVARISSL DNSSTFACIP YPQDELHPK IHSVLIFLVY FLIPLAIS YYYHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFIFCWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRRHNSQLC CGRKSQBERG TSYLLSSAV RMTSLKSNK NMVTNSVLN GHSMKQEMAM</p>	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	tatactatcc ctatcctagc ttttaacctg agccagagct cactacacag gttcctggct A	Homo sapiens
			atcgagtctg aatctgcact actcaactta taaactgtct gcagacacct gttaggga ttgctgatac tggcgccgag gatctgaact cgttttacct tcttggttg agcacagga ccgccagct agaggagcac cagcgactg cgttcgactg cgttcgactg gtcgagga ttgtttctcg gtgcaatcct gctgagcgtt ttccggggtt ctgcgcggtt caagtcccc atctctgctc ctacacacac aaagaaaaac aactctgat tggaaattgt ggaattttct cagccccac gagcgccggg gatctccag ccccgccct cctcccgcca gctgaggtc tccttcgctc gctgccttg ctagggaccg cagtcctca gccgcagctg ggtctgtccg cccccttt gccctgcct tttccgggg cggatttggg gaagtccgct tcaagtcacg gaggtctgtc ttcccgccggc cagctctcgc gaaactgggg ggtagagagc aaaggagag attcgtgga ggaagggag gtaggggttg cgcaaacgc cagagtatca aacttggggg tggcacagta ggtgacagca gcagctgcag gtggtggctg gggaccgcg agggggcgc cctctggga ggtctggct gagcgggctt gcaagcccg gagcggctg agagaccctg gacactgttc ctgctccctc gccacaaaa ctctcctcc agtccccctc cctgagagc catcgccgc agcctctgca cctgttttct tgtgtttaag ggtggggttt gccccctcc ccacgtccc atctctgat cctccacctt caccgccc ccccgaggt gagtgcggtg cccaggcgcg ctggccctga gaggtcggca gcagaccgg cagcgccaac cggccagcgg ctctgactgc tccggctgct cggccggcg ggcggggctg tctggaccc taggagggga cggaaccgga ctgctctttg ggcaccttc agggccctct ccaggtcggc tggctaata tcggacagac ggaactgcaca catcttggtt cgcgctctcc gcaaaaaacg gaggtccagg tcagttgtag actcttgtgc tgggtgcagg ccaagtgag ctgtactgaa aatgggtcca ataggtgca aggtgatga gaaccagaca gtggaagaaa tgaaggtgga acaatacagg ccacaaacaa cctctagagg tgaactgttc cctgaccctg agccagagct tataatagt accaagctga ttgaggtaca agttgttctc atattggcct actgtccat catcttgctt gggttaattg gcaactcctt ggtgatccat gtggtgatca aatcaagag catgcgaca gtaaccaact ttctcattgc caatctggtt gtggcagatc ttbtggtgaa cactctgtgt ctaccgttca ctctaccta taccttaatg gggagtgga aaatgggtcc tgcctgtgc cacctggtgc cctatgccc cggcctggca gtacaagtat ccacaatcac ctgacagta attgccctgg accggcacag gtgcctctc taccacctag agagcaagat ctccaagcga atcagcttcc tgattattgg ctggccctgg ggcacagtg cctgtctggc agtccccctg gccatcttcc ggaagtattc gctgattgag atcatcccg actttgagat tgtggcctgt actgaaaaat ggcctggcga ggagaagag atctatgga ctgtctatag tctttcttcc ttgttgatct tgtatgttt gccctgggc attatatcat ttctctacac tgcgatttgg agtataatga agaaccatgt cagtcctgga gctgcaaatg accactacca tcagcaagg caaaaaacca ccaaatgtct ggtgtgtgtg gtggtgtgtg ttgcggtcag ctggctgct ctccatgcct tccagcttgc cgttgacatt gacagccagg tccctggacct gaaggagtag aaactcatct tcacagtgtt ccacatcatc gccatgtgct ccacttttgc caatccccct ctctatggct ggatgaacag caactacaga aaggttttcc tctcgccctt ccgctgtgag cagcgggttg atgccattca ccttgaggtg tccgtgacat tcaaggctaa aaagaacctg gaggtcagaa agaacagtgg ccccaatgac tctttcacag aggtaccaa tgtctaagg agctgtgtgtg tgaataatgta tggatgaatt ctgaccagag ctatgaatct ggtgatggc	

201	Neuropeptide Y Receptor Type 2	3404	<p> ggctcacaag tgaaaactga ttcccatatt taaagaagaa gtggatctaa atggaagcat ctgctgttta attcctggaa aactggctgg gcagagcctg tgtgaaaata ctggaattca aagataaggc acaaaaatgg tttacttaac agttggttgg gtagtaggtt gcattatgag taaaagcaga gagaagtact ttgtattatt ttcctggagt gaagaaaact tgaacaagaa attggtatta tcaaaagcatt gctgagagac gggtgggaaa taagttagct ttcaaatcac gttaggacct ggattgagga ggtgtgcagt tgcgttgctc ctgcttggtt tatgaaaaa ccactgaaca gaaatttctc caggagacca caggctctcc ttcatcgcat ttgtattttt ttgttcattc tctagacaaa atccatcagg gaatgctgca ggaacgatt gccactata cgaatggctt cgaggagata aactgaatt ttgtatatata ttaatatatt ggcagatgat agggaaactc ctcaaacactc agtgggcca aattgtttaa aaccaattgc acgtttggtg aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaaac atcatttaat ttctaattc aagttacatc cgctttatgg agatactatt tagataacaa gaatacaact tgatactttt attgttatatc ctttttgaac atgtatgatt tctgttgtta ttacaccttt taaacagata aatatttttt ttctatttta gtagtagcga atctaattct aatctaactc tttaggagta tatttcagag aaattccaag cacaccagta tgaccatcct tatttcagaa atgacaatgc atagaggaaa agtaatatgt gcaaaagcctc cgaagaggat ggttaagtaa agacttaggt taccagtatc aggtttcgt tttgtatgt aggtagctct actgcctcct cttaaaacca acaaaaggaaa gagagactgg ctgcaaaact ttagaaggaa tggcttcgaa tagggttccct gggaggaaat ccgaggaaat agacgtgct gctctgctga ttgtctccac tatcctgttt tgctcctacc cactaatcca gcctgggagg ctctggggcat tagcgggaag cttcaccaca aggagacagg agcagtagtt ccataggcat gcgtccttag tggcacgagt ggcttgggtc aggatcaaa gtagaaggat tgggaagtca gctatctgga gagagagaga gattgtgttt tattctgtgc ccatagcttt cctatcctat cctatccta gcttttaacc tgagccagag ctcactacac aggttcctgg ctatcgagtc tgaatctgca ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catgggcggc aggatctgaa ctgcctttac ctcttgttt ggagcacagg gaccgcccag ctagaggagc accagcgac tgcgccccag cctggggcga ggtgtaggag gatttgttct cggtgcaatc ctgctggcg ttttcgggg ttctgcgcg atccagctcc ccatctctgc tctacacac acaaaagaaa acaactctcg attggaagt gtggaatttt ctacgcccc acgaggcgcg gggattctcc agccccggc ctctcccg cagcctgagg tctctctgc tgcctgctt tgctagggac cgcagtcct cagcccgagc tgggtctgtc cgccccctc ttgccccgc cttttccccg ggcggtattg gtgaagtcgg cctcaagtc aggaggtctg tcttcgcccg gccagctctc </p>	<p> Homo sapiens </p>
201	Neuropeptide Y Receptor Type 2	3404	<p> MGPIGAEADE NQTVEMKVE QYGPQTTPRG ELVPDPEPEL IDSTKLIEVQ VVILAYCSI P ILGVIGNSL VIHVTKEFS MRTVTNFFIA NLAVADLLVN TLCLPFTLY TLMGEWKMP VLCHLPYQAQ GLAVQVSTIT LTVIALDRHR CIVVHLESKI SKRISFLIG LAWGISALLA SPLAIFREYS LIEIIPDFEI VACTEKWPE EKSIVGTVYS LSSLILYVL PLGIISFSYT RIWSKLKNHV SPGAANDHYH QRRQKTKML VCVVVFVAVS WLPLHAFQLA VDIDSQVLDL KEYKLITVF HIIAMCSTFA NPLLYGWMNS NYRKAFLSAF RCEQRDLAIH SEVSVTFKAK KNLEVRKNSG PNDSFTEATN V </p>	

202	3405	Neuropeptide Y Receptor Type 4	NM_005972	atgaacacct ctacacctct tgggaccccc atacaacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgctgtatgt gtgtgactgt gagcagaag gagaaagcca acgtgacca cctgcttacc gccaacctgg ccttctctga ctctctcatg tgacctctc gagacacctc ggccttgctg ctcccaaat ctccacaagg ctccacaagg tgaacaacaga A	Homo sapiens
				cagtcacatc tcaacccaac aggtctggaag cccagcatct cacaggccta cctggggatt gtgtcatct ggttcattgc ctgtgtctc tccctgccc tccctggcca cagcatcctg gagaatgtct tcacaagaa ccactccaa gctctggagt tccctggcaga taagtgtgtc tgtaccgagt cctggccact ggctcaccac cgcaccatct acaccacct cctgctctcc ttccagtact gctccacct gggtctcatc ctggtctgt atgcacgcat ctaccggcgc ctgcagaggc aggggcgctgt gtttcaaa ggcacctaca gcttgcgagc tgggcacatg aagcaggtca atgtgtgtct ggtgtgtgat gttgtgtgct ttgctgtgct ctggctgctc ctgcatgtgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgcccaggg aacctcatct tcttagtgtg ccactgtctt gccatggcct ccaacctgct caacctattc atctatggct ttctcaacac caacttcaag aaggagatca aggccctggt gctgacttgc cagcagagcg ccccccgtga ggaagtggag catctgccc tgtccacagt acatacggaa gtctccaaa ggtccctgag gctaaagtgc aggtccaatc ccatctaa	
203	3405	Neuropeptide Y Receptor Type 4	NP_005963.1	CLMCVTVRQK EKANVTNLLI ANLAFSDFIL SEHCQSDVDV MPEIVTSYSI ETVVGVLGNL P QCMSVTVSIL SLVLVALERH QLIINPTGWLK PSISQAYLGI VLIWVACVL SLPFLANSIL ENVFHKNHSK ALEFLADKV CTESWPLAHH RTIYTFLLL FQYCLPLGFI LVCYARIYRR LQRQGRVFEHK GTYSLRAGHM KQNVNVLVVM VVAFVWLWP LHVENSLEDW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFNTNFK KEIKALVLTQ QQSAPLEESE HPLPLSTVHTE VSKGSLRLSG RSNPI	Homo sapiens
204	3406	Neuropeptide Y Receptor Type 5	NM_006174	gaaaggctat cggtaacaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt cccagtctgg gatgactata aaagcagtgt agatgactta cagtatttct tgattgggt ctatacatct taaagtcttc ttggctttat ggggaatcta cttattttaa tggctctcat gaaaaagcgt aatcagaaga ctacggtaaa ctctctcata gccaatctgg ccttttctga tatcttggtt gtgctgtttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatattat gccttttctt caatgtgtgt cagttttggt ttcaacttta attttaatat caatggccat tgtcaggtat catatgataa aacatcccat atctaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctcccc ttccagtgtt tccagtcctt gtggaacttc aagaacatt tggttcagca ttgctgagca gcaggtattt atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct agtccagtat attctgacct tagtttgtct tactgtaagt catacaagt9 tctgcagaag tataagctgt ggattgtcca acaagaaaaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtgggc tcatcttgaa gccataaag	Homo sapiens

191/448

205 3406 Neuropetide NP_006165.1 Y Receptor Type 5 Homo sapiens

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gtcccttata cactgtcttc atagttaata attctcactg ttt

MDLELDEYN KTLATENNTA ATRNSDFPW DDYKSSVDDL QYFLIGLYTF VSLGFMGNL P
LILMALMKKR NQKTTVNFLLI GNLAFSDFV VLFCSPTLT SVLLDQWMFG KVMCHIMPFL
QCVSVLVSTL ILISIAIVRY HMIKHPISSN LTANHGYFLI ATVWTLGFAL CSPLPVFHS
VELQETFGSA LLSRYLCVE SWPSDSYRIA FTISLLLVQY ILPLVCLTVS HTSVCRSISC
GLSNKENRLE ENEMINLTILH PSKSGPQVK LSGSHKWSYS FIKKHRRYS KKTACVLPAP
ERPSQENHSR ILPENFGSVR SQLSSSSKFI PGVPTCFEIK PEENS DVHEL RVKRSVTRIK
KRSRSVFYRL TILILVFAVS WMPLHLFHV TDFENDNLISN RHFKLVYCIC HLLGMMSOCL
NPILYGFLNN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531 Receptor Type 1 Homo sapiens

tcaagctcgc ccgcgcgcgc cgcagccggc ctggcgctg tctctggggg cctggggaac A
cgcgcggttt ggagatcgga ggcacctgga acccgtggca agcccgagc cgggagacag
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gtctctgggg cggggtctgt ggtgtgact gaactggct tccccgtga tgtcttgatg
ctcctatctg tgcacttacc gtaggtaggg acagtgtcc atgcaccaca gacacacca

Homo
sapiens

207 3408 Neurotensin NP_002522.1 P
Receptor
Type 1

cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg
ccctgcgtgc catgagtgcg tcggtcatgg agtcggagc ccctgagccg gccccgggtg
acggcacagc cctcacagct caaacgcccc cccccactcc caccatctgc aggtggtgaa
aacaaccctc gtgtatctct caataaaggt ggcgcaaggg cctcgatgtg g

MRLNLSAN PGLTAAADPFQ RAQAGLEAL LAPGFGNAG NASERVLAP SLELDVNTDI P
YSKVLTVAVY LALFVAVGTG NTVTAFTLAR KKSLSQSLQST VHYHGLSLAL SLLTLILLAM
PVELYNFIWV HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM

SRSRTKKFIS AIWLASALLT VPMLEFMGEQ NRSADGQHAG GLVCTPTIHT ATVKVVIQVN
TMSFIFPMV VISVLNTIIA NKLTVMVRQA AEQGOVCTVG GEHSTFMAI EPGRVQALRH
GVRVLRAVVI AFVVCWLPYH VRRLMFCYIS DEQWTPFLYD FYHYFYMTN ALFYVSSTIN
PILYNLSAN FRHIFLATIA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETLV

Homo
sapiens

208 3452 Opiate NM_000913 A
Receptor-
Like 1
(OPRL1)

ccctgcctgc aggaggtgc gactgccagc cggctgaggg cgggggtctc caggtgggtc A
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209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	MEPLFPAPFW VCVGGLLGNC ALCKTVIAID VGVPVAIMGS RLRGVRLLSG LRFTALGYV KTSSETVPRPA	EVYVGSHLQG LVMYVILRHT YNNFTSTFT AQVEDEIEC SREKDRNLRR NSCLNPILYA	NLSLLSPNHS KMKTATNIYI LTAMSVDRYV LVEIPTPDY ITRLVLVVA FLDENFKACF	LLPPHLLLNA ENLALADTLV AICHPIRALD WGPVFAICIF VFVGCWTFVQ RKFCASALR	SHGAFLLPLGL LLTLPFQGT VRTSSKAQAV LFSFIVPLV VFVLAQGLGV RDVQVSDRVR	KVTIVGLYLA ILLGFWPFGN NVAIWALASV ISVCYSLMIR QPSSETAVAI SIKADVALAC	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	atgacccagg atggcctccc gtgctgagct ttggcgctgg gcgacgtccc ggctgcctgg agcgtctcgg atgtggatcc gcttatctgg gcgtggggcc gtgtccagggt ccctgctgc gcctctttac gtgatcaaga atcatcaatg ttgaaacctg gccaggggat cagttctccc caccatccc ggcagactt gaaattcaca	caggcggcg cgcgcttagg tccagccgg gccttctgca cgccggcctc gtatggtgat atatgaacca agctgttgta tgatccggag tggccacct gtgagcgggg tggttctcgt ttaaagggaag tccgattttt aaagcctttt tcagaaactgc ttctcttgct ggaaggagat cactgatgac ctgacgaagc ctgcaagtga	gggtcctggc gacctctgc ggccttccac gcgtctgccc ggtccgcac ccggtccacc cacggaaatt cagtgcctgc atcggcagga gctctgtgtg cctggaccac ggcgaacccc acaaggcatt caaaatcatg attctatctt agccaagacc tttggccttc ccagtgggaa ccatgaaaa cctgagcatg atcctgcaac	acacccgagc tgccccacgc ggcctctgc ggcgtctgcc gtgtggttag tggtccctgc cagtgccctg atcggcacca ctgtgtgtg gagggagccc gccatcccc atcctgttcc tacacggaga ctggttttaa gagatgcaaa acatggttta tacggctgga tcaactgacca cctcggtgc ggaaggtgct ctgtctgaag gtgacctgag	cgcgtccgcg gggacgcagc tgggcagcgc cgggctccgc cggtgcctgc gattcccaaa ctttctgctg tggtgtgta tcacatcatg ccatgtctta actatgtcac aaaagacagt acgagaggag ttattgtgtg cagatatcaa ttatgggaat caggtatgca cctcggtgtc tgaaggtgct tcaaagtgggt gttctgtatgc gtgacctgac tctcccaacc	atgacagccc cagcagctc cgggctccgc cgggtccccc cggtgcctgc gattcccaaa ctttctgctg gggagtgcg tgcatgtggat tcacatcatg ctaccttcc catgtacctg gactgcagtg gatggagcc gttgtcgaat tggaggttct cctgaatcca cctgggtttt tgaaggtgct tcaaagtgggt cagcacaatt tctcccaacc	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgtgtggg ggtccagacc ccataattcct cagactcaac aattcttgtt ctttagaact gtgttctcac cttcccaaca ctgcactgcc gaagttagc ggcccccaaa ccttgctctc atcacacagt agagcttctt cccgaaggcc ctttaggata ggagaaaggg ttcatgcaca cacgtgtgag gtttgaagag cccctccag accactctac agctgctcta ccttagtg ccactagaa atgtttaggt gctggtctga aagtaagtgt aaggtccaca tccctgggga agtagttaaa taaaatagtt atgactg MTQAGRRGPG TPEPRRTQP MASPRLTFC CPTRDAATQL VLSFQPRAFH ALCILSGGILR P LALGLLQLLP GRRPAGGSP ATSPASVRI LRAAACDILL GCIGMVIKST VWLGFNFDV SVSDMNHTEI WPAAPCVGSA MWIQLLYSAC FWLFCYAVD AYLVIRRSAG LSTILLYHIM AWGLATLLCV EGAAMLYYPS VSRCEGLDH AIPHYVTMYL PLLLVIVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFFKIM LVLIICWLSN IINESLLFYL EMQTDINGS LKPVRTAAKT TWFMGILNP AQGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPLMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EHTASESCN KNEGDPALPT HGDL	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt accttggagc ctacaatgag aggtatttca aaatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttgggc cacttcaaga cgacaaaacgc tcactggga aaacaccttc actgaaaaga gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagtga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaaacct ctgatactac agcagatcat tccgtgtctg tactgtatgg tcttcattgc gggaatccta tttcatcatc tatctcaaga acattgttat tgctgacttt tactgtgccc gctctaagag tttcatcatc cttcgaatgag tgcaggatg gatattcttt gtgatgagcc tgacttttcc ttccaagatc cttgtgtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctcttttg acttctttca tccagtcagt gattacagc aaacttctgt cagtgtatgt atggatgctc atgctctctc ttgctgttcc aaatattatt ctccaccaac agagtgttag ggaggttaca caataaaaa gtatagaact gaaaagtga atgtggacgga agtggcacaa agcatcaaac tacatcttgc tggccatctt ctggattgtg tttcttttgt taatcgtttt ctatactgct atcacaaga aaatctttaa gtcccacctt aagtcagtc ggaattccac ttcggtcaaa aagaaatcta gccgcaacat attcagcatc gtgttttgtt ttttgtctg ttttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcatta cagctgccag tcaaaaagaaa tcttgcggtat tatgaaagaa ttcactctgc tactatctgc tgcaaatgta tgcttgacc ctattattta tttctttcta tggcagccgt ttagggaaat ctatgtgtaag aaattgcaca ttccattaaa agctcagaat gacctagaca ttccagaat caaagagga aatacaaac ttgaaagcac agatactttg tgagttccta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaaatc aataagatat gtgccctcat cataaatatc atctctagca ctgccatcca attagttca ataaaaatca aatataagtt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaatttctc taatactgac ctttctattc tctattaata aaaaattaat atcaaatctt attatattaa aataagttaa agtttataac cactagtctg gtcaggttaatt gtagaaatctt aaatagtaaa taaaacacaa cataatcaaa gacaactcac tcaaggcatct tctttctcta aataccagaa	Homo sapiens

196/448

213	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	MINSTSTQPP DESCSQNLII TQOIIPVLYC MVFIAGILLN GVSGWIFFYV PSSKSFIILY P	Homo sapiens
				KNIVIADFVM SLTFPKILG DSGLGPMQLN VFVCRVSAVL FYVMYVSIV FFGLISFDRY	
				YKIVKPLWTS FIQSVSYSKL LSVIVWMLML LLAVPNIIIT NOSVREVTQI KCIELKSELG	
				RKWHKASNYI FVAIFWIVFL LLIVFYTAIT KKIFKSHLKS SRNSTSVKKK SSRNIFSIVF	
				VFFVCFVPYH IARIPYTKSQ TEAHYSCQSK EILRYMKEFT LLLSAANVCL DPPIYFFLCQ	
				PFREILCKKL HIPLKAQNDL DISRIKRGNT TLESTDTL	
				tgtaaaggct ctggagaccaa cgcctggcgga accagctccg ctccggaggg gtctgcgcgg A	Homo sapiens
				ctggcctcgc cgcgccctca cgggaccctg cgcctagtagc agcctcagcc ccaggcacag	
				cgcgcctcc agacgcctc cgcgcgcga cgcctggagg cgcctcctgc tcgcctcctg	
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				ccctggggac ccaaggccta catcacatgg atcacgctag ctgtctacat cgtgcgcgtc	
214	3582	Oxytocin Receptor	NM_000916	tgtaaaggct ctggagaccaa cgcctggcgga accagctccg ctccggaggg gtctgcgcgg A	Homo sapiens
				ctggcctcgc cgcgccctca cgggaccctg cgcctagtagc agcctcagcc ccaggcacag	
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cacacacga cacagctatt agaactaata agcaagtctc gcaaggtttc agatataca
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ccttgaatta ggcagtggtt tcttagatat gataccaaag acacaagcaa ccaatggaaa
aataggtaaa ttggacttaa caagatttg aagcttttgt gatgaaaa accctatcaa
gaaggtgaaa agataacctg cagaatggga gaaaatttt gcgagtcata tatatgataa
ggggttggta tctggaatat ataaaact ctataacac acaataagg agaaaaataa
atcaatttaa aaaatgggt aacggtttga atagacattt ctccaaagaa gatatgcaa
tggctactaa gcacatgaaa aatactcaac attattattc attagggaaa tgcaagtcaa
aatcacaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

[illegible]

199/448

217	3589	Puriner Receptor P2Y, G- protein coupled, 2 (P2RY2)	NP_002555.1	agcagaacac ttcagcctgt gcagggttat attgggaagc ttagaggac caggacttgt gcagacgcca cagttctccc agatatggac catcagtgac tcatgctgga tgaccccatg ctccgtcatt tgacaggggc tcagatattt cactctgttg tccagagtca actgttccca taacccttag tcatgtttg tgtgtataag ttgggggaat taagtittca gaaaggcaag agctcaaggt caatgacacc cctggcctga agtccatgca agtagctggc tgtactgcca aggtacacat gttggagtc agcctaatac agtcaaatg agaaacaggc ccagagagga aggtggctta ccaagatcac ataccagagt ctggagctga gctacctggg ctggggggcca agtcacaggt tggccagaaa accctggtta gtaatgagg ctgagtttgc acagtgttct ggaatggact ggggtccacg gtgacttag ctctgaggag taccctcagg ccaagagatg aacatctggg gactaatatc atagacccat ctggaggctc ccatgggcta ggagcagtgt gaggctgtaa cttatactaa aggttgtgtt gcctgctaaa aaaa MAADLGPWND TINGTWDGDE LGYRCRFNED FKYVLLPVSY GWCVLGLCL NAVALYIFLC P RLKTNASTT YNFHLAVSDA LYAASLPLLV YYARGDHPV FSTVLCKLVR FLFTNLVCS ILFLTICSVH RCLGLVLRPLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTTTSARGGR VTCHDTSAPL IFSRFVAYSS VMLGLLFAVP FAVILVCYVL MARRLLKPAY GTSGGLPRAK RKSVRTIAVV LAVEALCFPL FHVTRTLYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGSPSPAT PARRRLGLRR SDRTDMQIRIG DVLGSSEDFR RTESTPAGSE NTKDIRL	Homo sapiens
218	3595	Puriner Receptor P2Y1	NM_002563	ccccctccc cggggatcca gttcgctgc tcccttcgc tcgctggctt tccgagtgt tgctgcccc ctggccgccc ctgccccttc cccctcctt accctcggga gcgcgcgctt aagtcgagga ggagagaatg accgaggtgc tgtggccggc tgtccccaac gggacggacg ctgcccctt ggcgggtccc ggttcgtctt gggggaacag cacggctgcc tccactgccg ccgtctctc tgcgttcaaa tgcgcttga ccaagacggg cttccagttt tactacctgc cggctgtcta catcttggtt ttcacatcgc gttcctcggg caacagcgtg gccatctgga tgttcgtctt ccacatgaag cctggagcgc gcatctccgt gtacatgttc aatttgctc tggccgactt cttgtacgtg ctgactctgc cagccctgat cttctactac tcaataaaaa cagactggat cttcggggat gccatgtgta aactgcagag gttcatcttt catgtgaacc tctatggcag catcttggtt ctgacatgca tcagtgcaca cgggtacagc ggtgtggtgt acccctcaa gtcctgggc cggctcaaaa agaagaatgc gatctgtatc agcgtgctgg tgtggctcat tgtggtggtg gctatctccc ccactctctt ctactcaggt accggggtcc gcaaaaaaaa aaccatcacc tgttacgaca ccactcaga cgagtacctg cgaagtattt tcatctacag catgtgcacg accgtggcca tgttctgtgt ccccttggtg ctgattctgg gctgttacgg attaatgtg agagctttga tttacaaaaga tctggacaac tctcctctga ggagaaaaatc gattacctg gtaatcattg tactgactgt tttgtctgtg tcttacatcc ctttccatgt gatgaaaaac atgaacttga gggcccggtt tgattttcag accccagcaa tgtgtgcttt caatgacagg gtttatgcca cgtatcaggt gacaagaggt ctagcaagtc tcaacagttg tgtggacccc attctctatt tcttggcggg agatactttc agaaggagac tctcccagc cacaaggaaa gcttctagaa gaagtgaagg aaatttgcaa tccaagagtg aagacatgac cttcaatatt ttacctgagt tcaatcagaa tggagatata agcctgtgaa ggcacaagaa tctccaaaac cctctctgtt gtaatatggt aggatgctta acagaatcaa gtactttcc cctcttaac tttctagttt agaaaaaat caaccaaga aaatagttag	Homo sapiens

219	3595	Purinergic Receptor P2Y1	NP_002554.1	<p> tataaaaaat aatagaagta gaaatgocca catccacact tagcttggtt gggtttgctt tcacagtctc tcttcttctt gactagaagt atgtataata aacaataact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcctt tctgttttaa gtgtgtgtgc acatgagtac tggggctgtt tttgatatta gtaatttctc taagaaaact agccccctgc aacttgagtt tgttggtttat ctgaccttta tttttttttt aaatccaca gtaggataaa aaaatctata ttttcagaaa tatctagcat ggtatataac aaacactaa actcatcagt tcatccggca tcatgatcaat ggatctctga ggggggtgtt tttttcagt tcttataagc atagatgata gtgactgag tttcttttagg gcattgaata gacaagttaa gtaaatgaat ttaaaagcct gaaagtgat tgttttccag ttatttctg aaaaggtctc attatatatt gggtgctaaa tgtttgatgg ggaagacctg catatatatt cgtactggta aaatgcattc aaaataatta aagtgcattg attttcttg taaacacctt gagctctctt agacatcttg tgataaagag catttacttg cccactgct gtgcaatgcc ttaggacttt gtttgtgttc caggacaagt gttcactcac atctgtaaaa acaattttta gaattgcaaa taaattacag accaaagatt ggtaaagtc aaataactgt tagtaagtgt aggtatatgt gacaggagga cagtatttca gaaaggaga ggttgacagt catccacaag gcatagcctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacattt tagaatgagg gccttttagt taaattaaag tcatggtgga gaagactctt gcttccacca agtgtttgaa aacacaaaat acgatataaa aaaaaaaa aaaa MTEVLPVAVP NGTDAFLAG PGSSWGNSTV ASTAAVSSSF KCALTKTGFQ FYFLPAVYL P VFIIIGLGN VAIWMFVFMH KPWSGISVYM ENLALADFLY VLTLPALIFY YFNKTDWIFG DAMCKLQRFI FHNLYGSIL FLTCLSAHRY SGWVYPLKSL GRLKKNAIC ISVLVWLIV VAISPILFYS GTGVRKNKTI TCYDTSDEY LRSYFIYSMC TTVAMFCVPL VLIIGCYGLI VRALIYKDLD NSPLRRKSIY LVIIIVLTFEA VSYIPFHVMM TTNLRLARLDF QTPAMCAFND RVYATYQVTR GLASLNSCVD PILYFLAGDT FRRRLSRATR KASRRSEANL QSKSEDMTLN ILPEFKQNGD TSL </p>	Homo sapiens
220	3596	Purinergic Receptor P2Y5	NM_005767	<p> ctgatgaaag tgcctccaaa ctgaaaaattg gacgtgcctt tacgatggta agcgtaaaca A gctcccactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tggtgtttgt gcttggttta gtatccaatt gtgttgccat atacattttc atctgcgtcc tcaaagtcctg aaatgaaact acaacttaca tgattaaact ggcaatgtca gacttgcttt ttgtttttac ttacccttc aggtattttt acttcacaa acggaattgg ccatttggag atttactttg taagatttct gtgatgctgt tttataccaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccatttt aagtcaaaaga ctctaagaac caaaagaaat gcaaagattg ttgtcactgg cgtgtggtta actgtgatcg gaggaagtgc accgcgctt ttgttcagt ctaccactc tcagggtaac aatgcctcag agcctgctt tgaaaatttt ccagaagcca catggaaaa atactctca aggattgtta ttttcatcga aatagtggga ttttttattc ctctaatttt aaatgtaact tgttctagta tgggtgctaaa aactttaacc aaaccagta cattaagtag aagcaaaaa acaaaaacta aggttttaaa aatgattttt gtacatttga tcatattctg tttctgtttt gtcccttaca atatcaatct tattttatat tctcttgtag gaacacaaac atttgttaat tgcacagtag tggcagcagt aaggacaatg tacccaatca ctctctgtag tgcgttttcc aactgttgtt ttgaccttat agtttactac ttacatcgg acacaattca gaattcaata aaaaataaaa </p>	Homo sapiens

221	3596	Purinergic Receptor P2Y5	NP_005758.1	actggtctgt caggagaagt gacttcagat tctctgaagt tcoatgtgca gagaatttta ttcagcataa cctacagacc ttaaaaagta agatatattga caatgaatct gctgcctgaa ataaaaccat taggactcac tgggacagaa ctttcaag MSDLLFVFTL YNDSFKYTL GCMFWMFVL GLVSNCAIY IFICVLKVRN ETTTYMINLA P PFKSKTLRTK RNAKIVCTGV WLTVIGGSAP AVFQSTHSQ GNNASEACFE NFPEATWKTY LSRIVIFIEI VGFPIPLN VTCSSMVLKT LTKPVTLSR KINKTKVLKM IFVHLIIFCF CFVPYNINLI LYSIVRTQTF VNCSSVAAVR TMYPIITLCIA VSNCCFDPIV YYFTSDTIQN SIKMNWSVR RSDRFSEVH GAENFIQHNL QTLKSKIFDN ESAA aaggacagag gaggggccct tctgtcagc tggctgggag cagaggtggc ttgtctttt A cggaagaact ggttctgtg aatttgtgt tatttcccat caaggatcaa ggacctgtc tggggctacc tcaggggccc acaggatgag gggctgggtt tcagatgagt ttctgtctg cctgtcatct gtagatgtc taaaaattg caaactgcct tctgtcagt gtcttgctca ttcttcata cactcctgat atgtcttca gtttccctat tctgtgcct tccagacttc tgccagaaca ttgcacgga cagtttccag cacagaactg actggcagca gggctgtc cacagagtgg aattgtctc agcacttcc gactgcaag cgaggcactt gctaaactct ggataaacaag acctctgcca gaagaacct ggctttgga ggcggagtcc aggtgagga gatgggtgcg gtctcagtg agccctgcc tccctgaaca taggaaacct acctgggag ccatggaaatg ggacaatggc acaggccagg ctctgggctt gccacccacc acctgtgtct accgcgagaa cttcaagcaa ctgctgtgc gactgtgta ttggcggtg ctggcggtg gcctgccgt gaacatctgt gtcatctacc agatctgac gtccgcggc gccctgacc gcaggccgt gtacacctat aacctgtc tggctgacct gtatatgac tgcctctgc ccctgtcat ctacaactat gcccaagtg atcactggc ctttggcgac ttgcctgcc gcctggtccg cttcctcttc tatgccaacc tgcacggcag catcctcttc ctacactgca tcagcttcca gcgtacctg ggcatctgc acccgctggc cccctggcac aaactgggg gcgcggggc tgcctggcta gtgtgtgtg cctgtgtggt ggcgtgaca accagtggc tgccacagc catctcgt gccacaggca tccagcgtaa ccgactgtc tgcctatgac tcagcccgcc tgcctggcc accactata tgcctatgg catggtctc actgtcatc gtctcctgt gcccttctg gccctgtg gctgtactg tctcctggc tgcgcctgt gcgcaggga tggccggca gacctgtg gacactggc cccctggcag gcggccgca tggccgtggt ggtggtgtg gcccttggc tcagcttcc gcttcttcc atcaccaga cagcctacct ggcagtgcg tgcacgcgg gcgtccctg cactgtattg gaggccttg cagcggccta caaaggcag cgccgtttg ccagtgcga cagcgtgtg gacccatcc tctctactt caccagaag aagttccgc ggcgaccaca tgagctccta cagaaactca cagccaaatg gcagagcag ggtcgtgtg tctccagggt cctgggcagc ctcatattt gccatttgt ccggggcacc agagcccca ccaaccccaa accatgcgga gaattagat tcagctcagc tgggcatgga gtaagatcc ctacaggac ccagaagctc accaaaact attcttcag cccctctct ggcagagacc ctgtgggcat ggagatggac agacctggc ctgggtcttg agaggtccca gtcagccatg gagagctggg gaaaccacat taaggtgctc acaaaaatac agtgtgact gtactgtcaa aa	Homo sapiens
222	3597	Purinergic Receptor P2Y6	NM_004154	aaggacagag gaggggccct tctgtcagc tggctgggag cagaggtggc ttgtctttt A cggaagaact ggttctgtg aatttgtgt tatttcccat caaggatcaa ggacctgtc tggggctacc tcaggggccc acaggatgag gggctgggtt tcagatgagt ttctgtctg cctgtcatct gtagatgtc taaaaattg caaactgcct tctgtcagt gtcttgctca ttcttcata cactcctgat atgtcttca gtttccctat tctgtgcct tccagacttc tgccagaaca ttgcacgga cagtttccag cacagaactg actggcagca gggctgtc cacagagtgg aattgtctc agcacttcc gactgcaag cgaggcactt gctaaactct ggataaacaag acctctgcca gaagaacct ggctttgga ggcggagtcc aggtgagga gatgggtgcg gtctcagtg agccctgcc tccctgaaca taggaaacct acctgggag ccatggaaatg ggacaatggc acaggccagg ctctgggctt gccacccacc acctgtgtct accgcgagaa cttcaagcaa ctgctgtgc gactgtgta ttggcggtg ctggcggtg gcctgccgt gaacatctgt gtcatctacc agatctgac gtccgcggc gccctgacc gcaggccgt gtacacctat aacctgtc tggctgacct gtatatgac tgcctctgc ccctgtcat ctacaactat gcccaagtg atcactggc ctttggcgac ttgcctgcc gcctggtccg cttcctcttc tatgccaacc tgcacggcag catcctcttc ctacactgca tcagcttcca gcgtacctg ggcatctgc acccgctggc cccctggcac aaactgggg gcgcggggc tgcctggcta gtgtgtgtg cctgtgtggt ggcgtgaca accagtggc tgccacagc catctcgt gccacaggca tccagcgtaa ccgactgtc tgcctatgac tcagcccgcc tgcctggcc accactata tgcctatgg catggtctc actgtcatc gtctcctgt gcccttctg gccctgtg gctgtactg tctcctggc tgcgcctgt gcgcaggga tggccggca gacctgtg gacactggc cccctggcag gcggccgca tggccgtggt ggtggtgtg gcccttggc tcagcttcc gcttcttcc atcaccaga cagcctacct ggcagtgcg tgcacgcgg gcgtccctg cactgtattg gaggccttg cagcggccta caaaggcag cgccgtttg ccagtgcga cagcgtgtg gacccatcc tctctactt caccagaag aagttccgc ggcgaccaca tgagctccta cagaaactca cagccaaatg gcagagcag ggtcgtgtg tctccagggt cctgggcagc ctcatattt gccatttgt ccggggcacc agagcccca ccaaccccaa accatgcgga gaattagat tcagctcagc tgggcatgga gtaagatcc ctacaggac ccagaagctc accaaaact attcttcag cccctctct ggcagagacc ctgtgggcat ggagatggac agacctggc ctgggtcttg agaggtccca gtcagccatg gagagctggg gaaaccacat taaggtgctc acaaaaatac agtgtgact gtactgtcaa aa	Homo sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTGQA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P	Homo sapiens
				TAVYTLNLAL ADLLYACSLP LLIYNYAAGD HWPFGDFACR LVRELFYANL HGSILFLTCI	
				SFQRYLGICH PLAPWHKRGG RRAAWLVCVA VWLAVTTQCL PTAIFAATGI QNRRTVCYDL	
				SPPALATHYM PYGMALTIVG FLPPFAALLA CYCLACRLC RQDGPAPFVA QERRGAARM	
				AVVAAAFAI SELPFHITKT AYLAVRSTPG VPCTVLEAFA AAYKGRPEFA SANSVLDPIIL	
				FYFTQKKFRR RPHELLQKLT AKWQRQGR	
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctaccggtc catagtgatga gagtggtaga cccctgcagc cagcaggcct cctgaaaaaa A	Homo sapiens
				aagtccatgg gtgacagaag attcattgac ttccaattcc aagattcaaa ttcaagcctc	
				agaccagggt tgggcaatgc tactgccaat aatacttgca ttgttgatga ttcttcaag	
				tataatctca atgggtgctgt ctacagtgtt gtattcatct tgggtctgat aaccaacagt	
				gtctctctgt ttgtcttctgt ttcccgcatg aaaatgagaa gtgagactgc tatttttatc	
				accaatctag ctgtctctga ttgtcttttt gtctgtacac taccttttaa aatattttac	
				aacttcaacc gccactggcc ttgtgtgac accctctgca agatctctgg aactgcattc	
				cttaccaca tctatgggag catgctcttt ctacactgta ttagtgtgga tcgtttcctg	
				gccattgtct atccttttctg atctctact attaggacta ggaggaaattc tgcatttgtg	
				tgtgctgggt tctggatcct agtctcagt ggcggtattt cagcctcttt gtttccacc	
				actaatgtca acaatgcaac caccacctgc ttggaaggct tctccaaacg tgcctggaag	
				acttatttat ccaagatcac aatatttatt gaagtgtgtg ggtttatcat tctcttaata	
				ttgaatgtct ctgtctcttc tgtgtgtgtg agaactcttc gcaagcctgc tactctgtct	
				caaatgggga ccaataagaa aaaagtactg aaaatgatca cagtacatat ggcagctctt	
				gtggtatgct ttgtacccta caactctgtc ctctcttgt atgccctggt gcgctcccaa	
				gctattacta atgtcttttt ggaagattt gcaaatgata tgtaccctaat cacttctgtc	
				cttgcaactc tgaactgttg ttttgacct ttcatctatt acttaccct tgaatccttt	
				cagaagtctt tctacatcaa tgcaccatc agaatggagt cctgttttaa gactgaaaca	
				cctttgacca caagccttc ccttccagct attcaagagg aagtgtgtga tcaaacaca	
				aataatgggt gtgaattaat gctagaatcc accttttagg tatgagaaat gtgttcagggt	
				ccagatatgg tttctctctat aatttttct atgctataaa ctaaagattt gaagctaatg	
				atactgagaa taatgcacca aatccagtca gatacatitg ttggaaggta tactgttagag	
				tttttattgc tgtttgttgc agtaattata ggtcaaatct aattacaaca accaagatgg	
				attgccaaac tcttctgctt ggttggaatt tcatgtatc gcattatcca ggtggctagt	
				ggcattttgat aatatagaga tgaatttgaa actttcaaaa aggtatttct attccaatga	
				tatttggtaa ttaggttggg cctataaata tagaacaatt cagggtattt ttaaaaaatt	
				gtgttactac tgatatatgc tagtttttatt ttattttttt ggactgtcat tgagtttatt	
				ttagcacaag aatattttta gcctaacatt attaataaga aatgtgtcaa atttttaaca	
				ttggtaaaat atgttatgtg cattttgaaa acagaaaaa aatgtgttg gcattgtacgt	
				gggtgggaag aaaaagaaaa ttaacaggat ttacacaatt ataatacaca gcagtgtgag	
				tttaaaaaac ttcgttgttt ttacaccaaa ttaaaatttt catgtcaaac ttcaaaagcca	
				gaaagctgct aaatacgtgt ctggcaggta aaagctggaa aattacttaa aacaggaag	
				tgtcaataaa aaacttgag caacaccaac atattttttc ttaaaatgtc acgttatctt	
				cattttggga aactaggttc tataaaatat ttatctctcc tgttatactt tggagcacag	
				cacagccaga aagggtgtgc atttgtgccc aggtcaggag caaattgaaa aaaaaataa	

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	agtaatacta aaaaatcaaa ctataaacc aaaaacatta ttaaaacctg aattaatcct ttttggagg aggagtagag atataaacc tgaataact tattctttct tategaattt tggagcctaa tatagccagg agctgctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaaa aaaaattcct MGDRRFIDFQ FQDSNSSLRP RLGNATANNT CIVDDSFKNY LNCAYVSVF ILGLTNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPFKIFYNF NRHPFPGDTL CKISGTAFLT NIYGSMFLT CTSVDRELA VYFPRSRTIR TRNSAIVCA GWILVLSGG ISASLESTTN VNNATTTCFE GFSKRWKTY LSKITIFIEV VGFIPLIN VSCSSVWLRT LRKPATLSQI GTNKKKVLKM ITVHMAFVW CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDFFI YYFTLESFQK SFYINAHIRM ESLFKTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	ggccggtggc cggggccga ccacccagc tgcgctcgt tactggccac aagtttgctc A tgggccagcc aagttggcaa cttggaagct tctccgggc tctggaggag ggteccctgct tcttctaca ggcgtcccg gcatggccgg gctggggcg tgcctccacg tctgggggtg gtaaatgctc ggcagctgc tctggccag agccagctg gattctgatg gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagta caatgtgaac tcaacatcac agctcaactc caggaggag aaggtaatg ttccctgaa tgggatggac tcaattgtg gcccagagga acagtggga aaatatcgc tgttccatgc cctccttata tttatgactt caaccataaa ggagttgctt tccgacactg taaccccaat ggaacatggg attttatgca cagcttaaat aaaaatggg ccaattatc agactgcctt cgccttctgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttccctgg ctgtggctat tctcatctt ggttacttca gacgattgca ttgcactagg aactatatcc acatgacctt atttggctc ttcattgctga gagctacaag catctttgtc aaagacagag tagtccatgc tcacatagga gtaaaaggagc tggagtcctc aataatgcag gatgaccac aaaattccat tgaggcaact tctgtggaca aatcacata tatcgggtgc aagattgctg ttgtgatgtt tattacttc ctggctacaa attattattg gacccctggt gaagttctt acctgcataa tctcatctt gtggctttct ttcggacac caaatacctg tggggttca tcttgatag ctgggggtt ccagcagcat ttgttgcagc atgggctgtg gcacgagcaa ctctggctga tgcgaggtgc tgggaactta gtgctggaga catcaagtgg attatcaag caccgatctt agcagctatt ggcctgaatt ttattctgtt tctgaatacg gttagagttc tagctacaa aatctggag accaatgcag ttgggcatga cacaaggagg caatacagga aactggccaa atcgacactg gtcctggctc tagtctttgg agtgcattac atcgtgttcg tatgcctgcc tcaactcttc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tcttcaactc ctttcagggt tctttgtgt ctatcatcta ctgtactgc aatggagagg ttcaggcaga ggtgaagaag atgtgagtc ggtggaatct ctccgtggac tggaaaagga caccgccatg tggcagccgc agatcggtc cagtgtcac caccgtgacg cacagacca gcagccagtc acaggtggcg gccagcacac gcatggtgct tatctctggc aaagtggca agatcgccag cagacagctt gacgccaca tcactttacc tggctatgtc tggagtaact cagagcagga ctgcctgcca cacttttcc acgaggagac caaggaagat agtgggaggc agggagatga tattctaag gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga	Homo sapiens

227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	NP_005039.1	<p> catttggtggc tgactttcat gggctggtcc aatggctggt tgtgtgagag ggcttggctg atactccat gcttgagttc aaaggctgaa aattcagtta aggtgttact taataatagt ttttaggctc catgaattgg ctctgtaaa tactaacgac atgaaaatgc aagtgtcaat ggagtgttt attaccttct attggcatca gttttcttc taaattaatg tatgggtatt gctgtgtgat ttttcatttt tttctgttac ttttgggtag aaaaaagatt caattgcttg gctgtagctt tctctcatat atatcacct aaataaatg aagatctttt agtgtgtatc atttccctt tagaaactag tattctcta tttcttact taatgtact ctatcactgc attattttg ctgtgtcata ggagcaatta ggatctaaa aaatatatgg gaagataaaa gatctaaaga caagtacttg ctggaaaatt agttggctgg acattgataa aataatgcat ttataacaat tacatgtgtt tttgggaaca agaaaaatt ctcaaaaaag aatatctcac acatcccttc ttttgaatgg cctcttttg accagccaga cctcagggtc tcaactcttc ttctttgtaa accatgtcat gtggaaagat ttcctcagtt agtgagcttg tgtctgcaaa ttgattttgt ttgtaatgta ttttgatagc aaatcatgct gcatctatat ctttttcttg tttgagctgt tactacattg tacatggcat gtgggatcaa ttaaaaaattt gttttaaaaa t </p>	Homo sapiens
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	NM_000316	<p> GNCFFPNDGL ICWPRGTGK ISAVCPPIY YDFNHKGVAE RHCNPNGTWD FMHSLNKTWA NYSDCRLRFLQ PDISIGKEF FERLYMYTV GYSISFGSLA VAILIGYFR RLHCTRNYIH MHLFVSEMLR ATSIKVDKRV VHAHIGVKEL ESLIMQDDPK NSIEATSVDK SQYIGCKIAV VMFIYFLATN YYWLVVEGLY LHNLIFFAFF SDTKYLMGFI LIGWGFPAF VAAWAVARAT LADARCWELS AGDIKIYQA PILAAIGLNF ILFLNTRVL ATKIETNAV GHDRKQYRK LAKSTLVVL VFGVHYIVFV CLPHSFTGLG WEIRMHCELF FNSFQFFVVS IYCYCNGEV QAEVKKMWSR WNLSVDWKRT PPCGSRRCGS VLTVTHTSTS SQSQVAASR MVLISGKAAK IASRQPDISHI TLPGYVWSNS EQDCLPHSEH EETKEDSGRQ GDDILMEKPS RPNESNPDE GCQGETEDVL cggaggagacg cggccctagg cgggtggcgt ggggaccgac cggatcgac ccggcctggc gctcctgctc tgcgtccccg tgcctcagtc tcttctgct gcacctgct caggaacacg catgactaaa gaggaacaga tcttctgct gccagccag cataatggaa tcagacaagg gatggacac gctcaaggag gtcctgcaga ggcagccag ccaggaaaga taaggcatct accctgagtc tgctccaca tcagggaagc ccactggcag caggtaaccga gggcgccct gctgcccga tgaggaggac aaggagcac atctctgct ggcgctggg ggcaccaggt gagtggtgg ctgtgccc atgggaccac atctctgct attatgact tcaatcaca agcccatgcc taccagct gtgaccgcaa tcggactac atctctgct gactgtgc ctgggacaaa caggacgtgg gccactaca gcgagtgtg tggcagctgg gactgtgc ctgggacaaa caggacgtgg gccactaca gcgagtgtg caaatcttc accaatgaga ctctgtaacg ggaggtgttt gaccgctgg gcatgattta cacgtgggc tactcctgt cctggcgtc cctcaccgta gctgtgctca tcttgcccta ctttaggcgg ctgactgca cgcgcaacta catcacatg cactgttcc tgtcctcat gtgctgcgcc gtgagcatc tgcgtaagga cgtgtgtct tacttggcg ccacgcttga tgaggctgag cgcctcacg aggagagct gcgcccac gccagccgc cccgcgcgc tgccaccgcc gctgcggct acgcgggctg cagggtggct gtgaccttct tctttactt cctggccacc aactactact ggattctggt ggaggggctg tacctgcaca gcctcatctt </p>	Homo sapiens

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	catggccttc ttctcagaga agaagtacct gtggggcttc acagtctctg gctggggtct gcccgtgtc ttctgtgctg ttgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agctccggga acaaaaagtg gatcatccag gtgcccaccc tggcctccat tgtgtcaac ttcatcctct tcataaatat cgtccgggtg ctgcccacca agctgcggga gaccaacgcc ggcgggtgtg acacacggca cagctacctg aagctgtctc aatccacgct ggtgtcatg cccctctttg gcgtccacta gtgtgtcttc atggccacac catacacga ggtctcagg acgctctggc aagtccagat gcactatgag atgtcttca actccttcca gggattttt gtgcaatca tatactgtt ctgcaatggc gaggatcaag ctgagatcaa gaaatcttg agcgttgga cactggcact ggacttcaag cgaaggcac gcagcgggag cagcagctat agctacggcc ccatgtgtc ccacacaagt gtgaccaatg tcggccccc tgtgggactc ggcctggccc tcagccccc cctactgcc actgccacca ccaacggcca ccctcagctg cctggccatg ccaagccagg gacccagcc ctggagacc tcgagaccac accacctgcc atggtgtct ccaaggacga tgggttctc aacggtcct gctcaggcct ggacgaggag gctctgggc ctgagcggc acctgccctg ctacaggaa agtgggagac agtcatgtga ccaggcgtg gggcctggac ctgctgacat agtggatgga cagatggacc aaaagatggg tgggtgaatg atttccact cagggcctg ggccaagagg aaaaacaggg aaaaaagaa aaaaaaga aaggaa	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	VMTKEEQIFL LHRQAQCEK RLKEVLQRP P SEEDKEAPTG SRYGRPCLP EWDHILCWPL NGSWELVPGH NRTWANYSEC VKFLTNETRE YIHMHLFSF MLRAVSIFVK PATAAAGYAG CRVAVTFFLY FLATNYIWL SVRATLAN TG CWDLSSGNKK QQRKLLKST LVLMPLFGVH FCNGEVQAEI KKSWSRWTLA RLLPTATNG HPQLPGHAKP LDEEASGPER PPALLQEWE TVM agccacagaga cacattggg ctgacctgcc gctgctgtca gtgggaggcc agtgggtctg A gccaagaagt gtcatggctg gtgtcgtgca cgtttccctg gctgctcact gcggggcctg tcctgtgggc cggggcagac tccgcaagg acgcgcagcc tgcaagtccg cggcccagag acacattggg gctgacctgc cgtgctgtc agtgggaggc cagtgtgtg gccaagaag tgtcatggct ggtgtcgtgc acgttccct gctgctctc ctctgctgc ctatggccc tgccatgcat tctgactgca tcttcaagaa ggagcaagcc atgtgcctgg agaagatcca gagggccaat gagctgatgg gcttcaatga tctcttcca gctgtcctg ggatgtggga caacatcacg tgttggaagc ccgccatgt ggtgtgagatg gtctgtgca gctgcccga gctcttccga atcttcaacc cagaccaagt ctgggagacc gaaaccaatg gagagtctga ttttgtgtac agtaactcct tagatctctc agacatggga gtggtgagcc ggaactgcac ggaggtggc tggtcgggac ccttccctca tctcttctg gctgtgtgggt ttgatgaata tgaatctgag actggggacc aggattatta ctacctgca gtgaaggccc tctacacggt tggctacagc acatccctcg tcacctcac cactgctatg tcatccttt gtgcttccg gaagtgcac tgcacacgca acttcatcca catgaacctg tttgtgtcgt tcatgtgag	Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	<p> ggcgaatctcc gtcttcatca aagactggat tctgtatgcg gagcaggaca gcaaccactg cttcatctcc actgtggaat gtaagccgt catggttttc ttccactact gtgtgtgttc caactacttc tggctgttca tcgagggcct gtacctcttc actctgctgg tggagacctt cttccctgaa aggagatact tctactggta caccatctt ggctggggga cccaactgt gtgtgtgaca gtgtgggcta cgtgagact ctactttgat gacacaggct gctgggatat gaatgacagc acagctctgt ggtgggtgat caaagccct ttggttggct ctatctgggt taactttgtg cttttattg gcattatcgt catccttgtg cagaaacttc agtctccaga catgggaggg aatgagtcca gcactactt gcgactggcc cgttccaccc tgctgctcat ccactattc ggaatccact acacagtatt tgccttctcc ccagagaaatg tcagcaaaaag ggaagactc gtgtttgagc tggggctggg ctctctccag ggctttgtgg tggctgttct ctactgtttt ctgaatggtg aggtacaagc ggagatcaag cgaataatggc gaagctggaa ggtgaaccgt tacttgcgtg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg ggtgaatggg ggcaccagc tctccactcct gagcaagagc agctcccaaa tccgcatgtc tggcctccct gctgacaatc tggccacctg agccatgctc ccct </p>	<p> Homo sapiens WCPRSMVAG P DLPLLSVGGQ LMGFNDSSPG NSLDLSDMGV VSRNCTEDGW ILCRFRKLHC HYCVVSNYFW TGCWDMNDST STLLLIPLFG NGEVQAEIKR KRSWKVNRV DNLAT </p>
232	3844	Apelin Receptor	NM_005161	<p> atggaggaag gtggtgatt tgacaactac tatggggcag acaaccagtc tgaagtgtgag A tacacagact ggaatcctc gggggccctc atccctgcca tctacatgtt ggtcttctc ctggggacca cgggaaacgg tctggtgtc tggaccgtgt ttcggagcag ccgggagaaag aggcgctcag ctgatatctt cattgctagc ctggcggtgg ctgacctgac ctctggtgtg acgctgcccc tgtgggctac ctacacgtac cgggactatg actggccctt tgggacctc ttctgcaagc tcagcagcta cctcatctc gtcaacatgt acgccagct ctctgcctc accggcctca gcttcgaccg ctacctggcc atcgtgaggg cagtggccaa tgctcggtg aggctgcggg tcagcggggc cgtggccacg gcagttcttt ggtgctggc cgcctcctg gccatgcctg tcatgtgtt acgaccacc ggggacttgg agaaccacc taaggtgcag tgctacatgg actactccat ggtggccact gtgagctcag agtgggctg ggaggtgggc cttggggctc cgtccaccac cgtgggcttt tgggtgcccc tcaccatcat gctgacctgt tacttcttca tcgcccaaac catcgctggc cacttccgca aggaacgcat cgagggcctg cggaagcggc gccggctgct cagcatcatc gtgtgctgtg ttggtgacct tgccctgtgc tggatgccct accactggt gaagacgtg tacatgtgtg gcagctgct gcaactggccc tgtgactttg acctcttct catgaacatc ttccctcat gcactacgtc cagctacgtc aacagtgc ccaacccct cctctatgac ttttctgacc ccgcttccg ccagggcctgc acctccatgc tctgctgtgg ccagagcagg tgcgcaggca cctcccaag cagcagtggg gagaagtcat ccagctactc ttcggggcac agccggggc ccggcccaaa catgggcaag </p>	<p> Homo sapiens A </p>

233	3844	Apelin Receptor	NP_005152.1	ggtggagaac agatgcacga gaaatccatc ccctacagcc aggagaccct tgtggttgac tag MEEGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLPLWATYTY RDYDWPFGTF FCKLSSYLIF VNMVASVFCL TGLSFDRYLA IVRPVANARL RLRVSGAVAT AVLWVLAALL AMPVMVLRTT GDLNTHKVQ CYMDYSMVAT VSSEWAVEVG LGVSSTTVGF VVPFTIMLTC YFFIAQTIAG HFRKERIEGL RKRRLLLSII VVLVVTFAIC WMPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLEYA FFDPRFRQAC TSMLCCGQSR CAGTSHSSG EKSASYSSGH SQPGPNMGK GGEQMHKESI PYSQETLVVD	Homo sapiens
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	gaattcggca cgagtcaggg aagcagcccc ggcgggccagc agggagctca ggacagagca A ggctccctgg gaagcctccg ggtgataggg gtgttccagc tgcggcgctc tgggggttca gagggggatc ttgaatgaac aaatgaatga actgctttct gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctccccaac agcctcgagt ggcctgcagt cacagggaac cctcaggaag acctccggg cagagaccag agggaaagccc atctctccag cagaactgct tggatttttc taccaggagg ctacagggtc tgcaacaatg atagcagaag ctgatggcat ctagagatct aggtgggac tagcacagca tcaactctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtcacctt ctgatggga ggcgtgacat agaattggag atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttagactcca ttgtggtttt ggaggactta tcccccttgg aagccagggt gaccaggatc ttctggtgg tggctctacag catcgtctgc ttctcggga ttctgggcaa tggctggtg atcatattg ccacttcaa gatgaagaa acagtgaaca tggctgtgtt cctcaacctg gcagtggcag atttctgtt caacgtcttc ctcccaatcc atataccta tgcggccatg gactaccat ggggttttcg gacagccatg tgcaagatca gcaacttct tctcatccac aacatgttca ccagctctt cctgctgacc atcatcagct ctgacccgtg catctctgtg ctctccctg tctggtccca gaaccaccg agcgttcgcc tggcttacat ggctgcatg gtcatctggg tcttggtttt ctcttgagt tccccatctc tcttctccg ggacacagc aacctgcag ggaataatc ctgcttcaac aacttcagc tgtccacac tgggtcttcc tctggtgcca ctcaactcca atggaccct gtggggtata gccggcacat ggtggtgact gtcacccgtt tctctgtgg ctctctggtc ccagtctca tcatcacagc ttgtacctc acctcgtgt gcaactgca gcgcaaccg ctggccaaga ccaagaagcc ctccaagat attgtgacca tcatattac ctctctctc tgctggtgcc cctaccacac actcaacctc cttagagctc accacactgc catgctggc tctgtcttca gcctgggttt gccctggcc actgcccctg ccattgcca cagctgcatg aaccccatc tgtatgtttt catgggtcag gacttcaaga agttcaaggt ggccctctc tctgcctgg tcaatgctct aagtgaagat acaggccact ctctctacc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaacccctca atggactctc tcaaccacag gacacccaag gatattgtct ctgaagatca aggcaagaac ctctttagca tccaccaatt ttactgcat tttgcatggg atgaacagtg ttttatgctg ggaatctagg gcttggaaac ccttctctt agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg ctcttggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc	Homo sapiens

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatccggttt ttggaattt ggttgaagtc actttgattt ctttaaaaaa catcttttca atgaatatgtg ttaccatttc atatccattg aagccgaaat ctgcataaag aagcccaactt tatctaaatg atattagcca ggaatccttg tgctctagga gaaacagaca agcaaaacaa agtgaaaacc gaatggatta acttttgcaa accaaggag atttcttagc aatgagtcct aacaaatatg acatccgtct tcccacttt ttgtgatgtt tatttcagaa tcttggtgta ttcatttcaa gcaacaacat gttgtatttt ttgtgtttaa agtactatctt cttgattttt gaatgtattt gtttcaggaa gaagtcatctt tatggatttt tctaaccctg gttaactttt ctagaatcca cctctcttg cccttaagca ttactttaac tggtagggaa cgccagaact ttttaagtcca gctattcatl agatagtaat tgaagatatg tataaatatt acaaagaata aaaatatatt actgtctctt tagtatggtt tcaagtgcaa ttaaacaggag agatgtcttg tttttttaa aagaatagta ttaaataggt tctgacttt ttgtgatcat tttgcacata gctttatcaa cttttaaaca ttaataaact gatttttta aag	Homo sapiens
238	3847	Sphingolipid NP_005226 Receptor Edg3	LENIFVLLTI WKTKKFRPM YYFIGNLALS DLIAGVAYTA NLLSGATTY KLTPAQWFLR EGSMFVALSA SVFSLAIAI ERYITMLMK LHNGSNFRL FLLISACWVI SLILGGLPIM GWNCSIALSS CSTVLPYHK HYILFCTTF TLLLSIVIL YCRIYSLVRT RSRRLTFRKN ISKASRSSEK SLALKTVII VLSVFIACWA PLFILLLLDV GCKVKTCDIL FRAEYFLVLA VLNSGTNP II YTLTNKEMRR AFIRIMSCCK CPSGDSAGKF KRPIIAGMEF SRKSDNSSH PQKDEGDNPE TIMSSGNVNS SS atggcaactg ccctccgccc gcgtctccag ccggtgcggg ggaacgagac cctgcgggag A cattaccagt acgtgggaa gttggcggc aggttgaaag aggcctccga gggcagcacg ctcaccaccg tgcctctctt ggtcatctgc agctcatctg tcttgagaa cctgatggtt ttgattgcca tctggaaaaa caataaatctt caaacccga tgtactttt cattggcaac ctggctctct cgcacctgct ggccggcctc gcttacaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggaggcgag tatgtctgtg gcccctgggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaaatg atcaaaatga ggccttacga cgccaacaag aggcaccgag tcttctctt gatcgggatg tgcgggctca ttgccttcac gctggcgccc ctgccattc tgggctggaa ctgcctgcac aatctccctg actgctctac catcctgccc ctactactca agaagtacat tgccttctgc atcagcatct tcacggccat cctggtgacc atcgtgatcc ttaacgacg catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctgcgga ccgtggtgat tgtggtgagc gttgtcatcg cctgctggtc cccactcttc atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gcccactct cttcaaggct cagtggttca tcgtgtggc tgtgtcaac tccgccatga acccggtcat ctacacgctg gccagcaagg agatcgggcg ggccttcttc cgtctggtct gcaactgctt ggtcagggga cggggggccc cgccctcacc catccagcct gcgtcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaag acctgcccc cacagacccc tcactctgca tcatggacaa gaacgcagca cttcagaagt ggaatctctg caactga tatalpprlq pvrnetlre hyqyvgklag rlkeasegst lttvlfvlic sfvlenlmv P liaiwnknkf hnrmyffign lalcdllagi aykvnilmvg kktfslsptv wflregsmfv algastrcsll aiaierhltn ikmrpydank rhrvlllign cwliaftlga lpilgwnclh	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3		Homo sapiens

240	3848	C-C Chemokine Receptor 9	NM_006641	<p>NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHHNSERSMA LLRTVIVVS VFIACWSPLF ILFLIDVACR VQACPILEKA QWFIVLAVLN SANMPVIYTL ASKEMRRAFF RLVCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSPK VKEDLPHTDP SSCIMDKNAA LQNGIFCN</p> <p>gcccctcatc ccaggcagag agcaaccacag ctctttcccc agacactgag agctggtggt A gctgtctgtc ccaggcagag ttgcctgcgc ctccacaagc cctattccta acatggctga tgactatggc tctgaatcca catcttccat ggaagactac gttaaactca acttcactga cttctactgt gagaaaaaca atgtcaggca gtttgcgagc catttccctc cacccttgta ctggctcgtg ttcactcgtg gtgccttggt caacagtctt gttatccctg tctactggta ctgcacaaga gtgaagacca tgaccgacat gttccttttg aatttgcaa ttgctgacct cctctttctt gtcactcttc ccttctgggc cattgctgct gctgaccagt ggaagtcca gaccttcagt tgcaaggtgg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcattcagc tggacaggta cattgccatt gccaggcca tgagagcaca tacttggagg gagaaaaggc ttttgtacag caaatgggtt tgctttacca tctgggtatt ggcagctgct ctctgcatcc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc accatggttt accctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcattcttg ggttcttctt tcccttcttg gtcattgctt gctgctatcc catcatcatt cacacctga tacaagccaa gaagtcttcc aagcacaaa cctaaaagt gaccatcact gtctgacctg tctttgtctt gtctcagttt cctacaact gcattttgtt ggtgcagacc attgacgcct atgccatgtt catctccaac tgtgccgttt ccaccaact tgacatctgc ttccagggtca ccagaccat cgcctcttc cactgttgc tgaacctgt tctctatgtt ttgtgggtg agagattccg ccgggatctc gtgaaaaccc tgaagaactt gggttgcatc agccaggccc agtgggttcc atttacaagg agagaggaa gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ccttgagggt tcttctctga ggtgcatggt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggtg aactggaact atatgattac ttgtagtcag aatttgccaa agcaaatatt tcaaaatcaa ctgactagtg caggaggctg ttgattggct cttgactgtg atgcccgcga ttctcaagg aggactaagg accggcactg tgagacaccc tggctttgcc actgcgcgga gcatcaatgc cgtgcctctt ggaggagccc ttggattttc tccatgcact gtgaacttct gtggttccag tctcatgctt gctcttcca aaaggggaca cagaagcact ggctgctgct acagaccgca aaagcagaaa gtttcgtgaa aatgtccatc ttgtggaaat ttctacctt gctctgagc ctgataaccc atgccaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt ctctgttctt ccttgttctg ttctgggcca gtgaaggctc ttgttctgat ttgaaacga tctgcaggct ttgccagtga acccttgagc aactgaccac acccaagg catccaaagt ctgttggctt ccaatccatt tctgtgtctt gctggagggt ttaacctaga caaggattcc gcttattcct tggtatgggt acagtgtctc tccatggcct gagcaggag attataacag ctgggttcgc aggagccagc cttggccctg ttgtaggctt gttctgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaatgggct ggttctttttt gccccttctt tctgaggcc cactttattc tgaggaaatc agtgagcaga tatgggcagc agccaggtag ggcaaggggg tgaagcgcag gccttgctgg aaggctattt acttccatgc ttctctttt ctactctat</p>	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	MADYDGSEST YWYCTRVKTM CVLLIMCISV SGIAICTMWY LKVTITVLTV NPVLYVFVGE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSEDESKLKS FVLSQFPYNC RFRRLVKTL	FTDFYCEKNN ADLLEFLVLP RAHTWREKRL AVLTCLKVILG ILLVQITIDAY KNLGCISQAQ	VRQFASHFLP FWAIAAADQW LYSKMVCFTI FFLPFVVMAC AMFISNCAVS WVSFTRREGS	PLYWLVFIVG KEQTEMCKV WVLAALCIP CYTIIHTLI TNIDICFQVT LKLSMMLLET	ALGNSLVILV NSMYKMFYS EILYSQIKEE QAKKSSKHKA QTIAFFHSCL TSGALSLS	P Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tattactctc tccttggtgt tggttcacgg attgaggatt ttccactggc atgtttgccca catcctgtct atctggcttt ttcaataatc atcaggcacc acaatgagta tcagtaggc ccttatcacc gtgatgcagg cccatccttt gagatactca aggaactcag MEDLEETLFE	tgaggagaac tttgagtctga tatattgttt ggctcaagtg tcaattttct cctttggcat gtgttttttt tatctcatcg tggcttctct atactctttg atgttctgac ttgtctactt atctctggac tgtttagcat ctggaatccc atgtacctat agtacacact aaaccaagaa EFENYSYDLD	attatttgaa tttgaggag ggcttttgtt gaagaagaca tctctttctg ctggctgtgc cctgacagtg gcatcgaacc aattggcgtt ctataacaat ttgggtgaaa gtgtctcacc aattctggtt ttgggagctc cctctccact tagtaagaag gtgggaagtc tctgtgtctc ctggaacag KQVLGVVHWV	WVSFTRREGS gaatttgaaa aaagtcaccg ctgggaattc gtcaccactc ccccgtgaca aaagccaatt atcagcctgg ctcaagaact cctgcctgt tttcagaagc tttatcattg ttcaaggtga gtggtctgga gtggttgttg accattcacc ggtttggcat ttccaagctc agctgttctg ctggaacacag ctcaataa	tgacctagac tcactgggtc cactggtcatt tggtgttctt caatctagcc ggccatgaat ccttcactgc accactatat cctctgattgt cattatatc cactgtggag acttccggga atgacctga cctcactttg gctatctctt ccctttgcta agaagcgaac agtcctgac cctttgtggt ttgctggact ttccccaccat ttgcttgaac ctcagttgct tgaacagctc ctcaataa	A Homo sapiens	
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	WFTGLKWKKT MFASVFFLTV FNNHTLCYNN SSRHFWTILV PILYVLISKK	VTTLWFLNLA ISLDHYIHLI FQKHDPDLTL VVAFVVCWT FQARFRSSVA	IADFIFLLFL HPVLSHRHRT IRHHVLTWVK PYHLFSIWEL EILKYTLWEV	PLYISYVAMN LKNLSLIVIF FIIGYLFPLL TIHNSYSYSH SCSGTVSEQL	FHWPFGIWLC IWLIALSLIGG TMSICYLCI VMQAGIPLST RNSETKNLCL	KANSFTAQLN PALYFRDTVE FRVKKRTVLI GLAFLNSCLN LETAQ	P Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggcctcat gcggtcacaa ggcgcgagc gggctgacg ctggtgctgg aacctggcct	cgaccactcg ctcccgccaa tccagccgtt tgcgtctcta tgatcgcgcg	gggccccagg ccagagcgca cagagccttc cagcgtcgtg gggtgcgcgg	gtttctgact gaggcctcgg cagagcctgc gtggtcgtgg ctgcacaacg	tattttctgg cgggcaacgg agctggtgca ggctggtggg tgacgaactt	gctgccgcgcg gtcgggtggct tcagctgaag caactgcctg cctcatcgcc	A Homo sapiens

245	3850	G Protein- Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gcttctgagc cagcgggctg ggtgttcggc gggggcctgt gccacctggt cttcttctctg cagccggtca ccgtctatgt gtcgtgttcc acgctcacca ccctgcagat ggaccgctac gtcgtgctgg tgcacccgct gaggcgccgc atctcgctgc gcctcagcgc ctacgctgtg ctggccatct gggcgctgtc cgcggtgctg tgcgagcctc ccgccgtgca cactatcac gtggagctca agccgcacga cgtgcgcctc tgcgagagat tctggggctc ccaggagcgc cagcgccagc tctacgctg gggcgctgctg ctggtcacct acctgtccc tctgctggtc atctcctgt cttacgtccg ggtgtcagtg aagctccgca accgctggt gccgggctgc gtgaccaga gccaggccga ctgggacgc gctcgcgcc gccgcacct ctgcttgcgtg gtggtggtcg tgggtggtgt cgcgctctgc tggctgcgc tgcacgtctt caacctgctg cgggacctcg accccacgc catcgacct tacgctttg ggctggtgca gctgctctgc cactggctcg ccatgagttc ggcctgctac aaccccttca tctacgctg gctgeacgac agctcccg aggagctgc caactgttg gtcgctggc ccgcgaagat agcccccat ggccagaata tgaccgtcag cgtggtcatc tga</p>	Homo sapiens
				<p>GLSLQVHQLK P GLIVLLYSV VVGLVGNCL LVLVIARVR LHNVTNFIG NLALSDVLMC TACVPLTIAY AFEPGRGWFG GGLCHLVFFL QPVTVVSFV TLTTIAVDY VVIVHPLRRR ISRLSAYAV LAIWALSAVL ALPAAVHTYH VELKPHDVRL CEEFWGSQER QRQLYAWGLL LVTYLLPLLV ILLSYVRVSV KLRNRVPGC VTQSQADWDR ARRRTEFCLL VVVVVFAVC WLPLHVFNLL RDLDPHAIDP YAFGLVQLLC HWLAMSSACY NPFIYAWLHD SFREELRKLL VAWPRKIAPH GQNMTVSVVI</p>	
246	3851	G Protein- Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caatttaagc gggctgcctc gggattattt agatgcgcgt A gctgcggaga acatctcggc tgcgtgtctc tcccgggttc tgcgctgtag gccagagcct gagctcgtag tcaacccctg ggacattgtc tggtgtacct cgggaacctt catctcctgt gaaaatgcca ttgtgtctc tatcatctc cacaacccca gctgcgcgc acctatgtc ctgctaatag gcagcctggc tcttgacagc ctgctggcgc gcatggact catcaccaat ttgttttttg cctacctgct tcagtcagaa gccaccaagc tggtcacgat cggcctcatt gtcgccctct tctctgcctc tgtctgcagc ttgctggcta tcaactgttg ccgctacctc tcaactgtact acgctctgac gtaccattcg gagaggacgg tcaactgttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctggggctgc tgcctgtcat gggctgggac tgctcccgag acgagtcacac ctgcagcgtg ttcagaccgc tcaccaagaa caacgcggcc atcctctcgg tgccttctc cttcatgtt gcgctcatgc ttcagctcta catccagatc tgtaagattg tgatgagga cgcctcatc atagcctgc agaccactt cctgggcacg tcgcactatg tgaccacccg gaaaggggtc tccacctgg ctatcatcct ggggacgttt gctgcttctg gtagcctttt caccctctat tcttgatag cggattacac ctacccctcc atctatacct acgccaacct cctgccccgc acctacaatt ccatcatcaa cctgtcata tatgctttca gaaaccaaga gatccagaaa gcgctctgtc tcatgtgtg cggctgcac ccgtccagtc tgcgccagag agcgcgctcg cccagtgatg tgtag</p>	Homo sapiens
247	3851	G Protein- Coupled Receptor GPR12	NP_005279.1	<p>MNEDLKNLS GLPRYLDAA AENISAAVS SRVPAVEPEP ELVNPWDIV LCTSGTLISC P ENAIIVLIIF HNPSLRAPMF LLIGSLALAD LLAGIGLITN FVFAYLLQSE ATKLVITGLI VASFSASVCS LLAITVDRYL SLYALTYHS ERTVTFTYVM LVMLWGTSC LGLLPVMGWN CLRDESTCSV VRPLTKNNA ILSVSFLEMF AIMLQLYIQI CKIVMRHAHQ IALQHHFLAT</p>	Homo sapiens

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAILGTF AACWMPETLY SLIADYTPS IYTYATLLPA TYNSINPVI YAFRNQEIQK ALCLICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcga cgccaggcct tcaccatgga tcagttccct A gaatcagtgga cagaaaaactt tgagtacgat gatttgctg aggcctgtgta tattggggac atcgtggtct ttgggactgt gttcctgtcc atattctact cgtcatctt tgccattggc ctggtgggaa atttgttgtt agtgtttgct ctcaccaaca gcaagaagcc caagagtgtc accgacattt acctcctgaa cctggccttg tctgatctgc tgtttgtagc caatttgccc ttctggactc actatttgat aaatgaaaag ggccctccaca atgccatgtg caaattcaact accgctctct tcttcactgg ctttttttggga agcatattct tcatcacctg catcagcatt gataggtaac tggccatcgt cctggccgcc aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca gcagccattt tgggtggcagc accccagttc atgttcacaa agcagaaaaga aaatgaatgc cttggtgact acccgaggt ccttcaggaa attcgtgccc tgctccgcaa tgtggaaca aattttcttg gcttctact cccctgtctc attatgagtt attgtactt cagaatcatc cagacgtgtg ttctctgcaa gaaccacaag aaagccaaag ccattaaact gatcctctg gtggtcatcg tgttttctct cttctggaca ccctacaaag ttatgatttt cctggagagc cttaaagctct atgacttctt tcccagttgt gacatgagga aggatctgag gctggccctc agtgtgactg agacgggttg attagccat tgttgccctga atcctctcat ctatgcattt gctggggaga agttcagaag ataccttac cacctgtatg ggaatgcct ggctgtcctg tgtgggcgtc cagtccacgt tgatttctcc tcacttgaat cacaaggag caggcatgga agtgttctga gcagcaattt tacttaccac acgagtgtat gagatgcatt gctcctctc tgaagggaat ccaaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtagg agatattttg ttgttatttc ttacaggcac aaaatgatgg acccaatgca cacaaaaaaa ccctagagtg ttgttgagaa ttgtgctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gagtagacat ttctcttact gcaaatgtca tcagaaactt ttggtttgca gatgacaaaa attcaactca gactagttaa gttaaatgag ggtggtgaat attgttcata ttgtggcaca agcaaaaaag gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta MDQPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLSLDLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEITNFI GF LLPLLMSYC YFRIIQTLES CKNHKKAKAI KLILLVIVF FLFWTPYNVM IFLETLLKLYD FFPSCDMRKD LRLALSVTET VAFSHCLNP LIYAFAGEKE RRLYHLYGK CLAVLCRSV HVDFSSSESQ RSRHGSVLSS NFTYHSDGD ALLLL atggacccag agaaaacttc agttattttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctctg tcttctctcc agtcttttac acagctgtgt tcctgactgg agtgcgtggg aaccttgctt tcattggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggtctg cctgacttc atthttcttg tcacattgccc tctctgggtg gataaagaag catctctagg actgtggagg acgggctcct tcctgtgcaa agggagctcc tacatgatct ccgtcaatat gcactgcagt gtcctcctgc tcacttgcat gagtgttgac cgctacctgg ccattgtgtg gccagtctga tcacaggaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1		Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290		Homo sapiens

Homo
sapiens

P

NP_005281.1

G Protein-
Coupled
Receptor
GPR15

3853

251

tactgtcctgc tgggggttgcc tactttctg tcacgggagc tcacgtgat tgatgataag
ccatactgtg cagagaaaaa ggcaactcca attaaactca tatggtccct ggtggcctta
atttcacct ttttgtccc tttgtgagc atttgacct gctactgttg cattgcaagg
aagctgtgtg ccattacca gcaatcagga aagcacaaca aaaagctgaa gaaatctata
aagatcatct ttattgtcgt ggcagccttt ctgtgtcctt ggtgacctt caatactttc
aagttccctgg ccattgtctc tgggttgagg caagaacact attaccctc agctattctt
cagcttggtg tggaggtgag tggacctctg ccatttgcca acagctgtgt caacctttc
attactata tcttcgacag ctacatccg cgggccattg tccactgctt gtgacctgac
ctgaaaaact atgacttttg gagtagcact gagacatcag atagtccact cactaaggct
ctctccacct tcattcatgc agaagatttt gccaggagga ggaagaggtc tgtgtcactc
taa

Homo
sapiens

A

NM_005292

G Protein-
Coupled
Receptor
GPR18

3854

252

gaaagagaca aagcagcaat taaagtacg ccagcaccac ctcgacgcc aagcgttaca
ctggaaaaa ctttttaag caacaaaaga gtctaaaaa aaatacaaca tttcttaaat
acactgtttc cagaaagagc ttttttaaca gaagcaactc aaagatatcc cttcgacaga
agtggaggtg ctgaaaaatg ctcatctctc acacagactt ttgatggaca ggagtttcta
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cccttttaac agctcacatc cagatgaata caaaattgca gcccttgctt tctatagctg
tatcttcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac
caagaagaga accacggtta ccactatat gatgaatgtg gcattagtgg acttgatatt
tataatgact ttacctttc gaatgtttta ttatgcaaaa gatgaatggc catttgaga
gtacttctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct
tcttgccctt attagtgtg acagatacat ggccattgta cagccgaagt acgccaaa
acttaaaaac acgtgcaag ccgtgctggc gtgtgtggga gtctgataa tgacctgac
cacgaccacc cctctgtctac tgctctataa agaccagat aaagactcca ctcccgcac
ctgacctcaag atttctgaca tcactatatc aaaagctgtg aacgtgtgta acctcactg
actgacattt tttttcttga ttcctttgtt catcatgatt ggtgtctact tggctattat
tcataatctc cttcacggca ggacgtctaa gctgaaaccc aaagtcaagg agaagtccat
aaggatcatc atcacgtgc tgggtcaggt gctcgtctgc tttatgacct tccacatctg
tttgcgtttc ctgatgctgg gaacggggga gaacagttac aatccctggg gaccccttac
caccttcctc atgaacctca gcacgtgtct ggatgtgatt ctctactaca tcgttttcaa
acaatttcag gctcgagtca ttagtgtcat gctataccgt aattaccttc gaagcatgag
cagaaaaagt ttccgactg gtactctacg gtcactaagc aaataaaca gtgaaatgtt
atgaataata aggtttcttc atttcaatcc catcaaaatt cacttcaacta actactctg
cgtcaatgga tattctgtat aatactatca agtccctttt ctcttgaaaa aataaattca
ttatcttcat tttaaaaaaa aaaaaaaa

253	3854	G Protein- Coupled Receptor GPR18	NP_005283.1	MITLNNQDQ MMVALVDLI MAIVQPKYAK LKAVNVNLT VLVCFMPFHI MLYRNYLRSM	VPENSSHPDE FIMTLPRMF ELKNTCKAVL RTFFFLIPL CFALMLGTG RRKSRSGSL	YKIAALVPYS YYAKDEWPF ACGVWIMTL FIMIGCYLVI ENSYNPWGAF RSLSNINSEM	CIFIIGLFVN EYFCQILGAL TTTTPLLLY IHNLLHGRTS TTFLMNLSTC L	ITALWVFSC TVFPYSIALW KDPDKDSTPA KLPKPKVEKS LDVILYYIVS KQFQARVISV	TKKRITVTIY LLAFISADRY TCLKISDIIY IRIITLLVQ KQFQARVISV	Homo sapiens
254	3855	G Protein- Coupled Receptor GPR19	NM_006143	aattaagaga tttgattatt acctctgcca aacagacctt gattctgtgg taggaggact catcagcggt gggtagtga ctacgtttct caaggtgtcc ctttgtgacc cctccctcc gattccatct agggcacagt aactatcaag tgtagctcag agctatcaca taatgccaat cogaagcaat catttcagaa tgacagagaa ttttgtctaa taaaaacaga tttgtaaaat	aaaaaagtga cctacacttc agcaataacc cactatgtgc ttgttttcta cagttctacca gccagcacgc acgtgcaagg ctctccatct agagaaaaag cctgtgtctt tcttggaag gtcctcataa ggcgaacagg atgttctcta cctatgcacc tggtatcctt tttcggagag gcctatacta atcccttcca gccaaggaag gttctcattc agctatttac gcattcattt	atatgtgttt tggtgacct tgatggaatt tgaaacccgg tcttcggcaa ccaactactt ctttgtcct ttgtgcgata gcatagaccg ccaagaaaat tttctatgg gcactgccta ttttatttta tgaggaggac ttttaaattc cccatgaaca ttagttcttc ggatgaaga tcacaacaag tggaacaaac aaaagcttgc tttcaattgt atatgtgtt gtttactgt	tgctcacaga cctccagttc gttccaatat ttttcaatat gttccatccag atcgtctatc gttctacacc gattgcggca ctccaactgg cactgtcatc ccaaaaggct aatgaacatt gttgtttttg agactataac agcctctaaa gactttttgc ttcaaggatg tattaccaaa ttggcccatc tatgcaccag tcaactcaact	atggataaca agcactgtgc accactggaa ctcactccag gtgtccagat atcgtctatc ctctgagcct tcgtggatct gacagtcatc cacttcttgg ataaaatata gtccctcggg tgcctttcca aaaagttccc cctactctgt atcaaatgta atgtcctcta gccaataaaa gactcgtatc aactcaaatc agattaaaaa ttccaaggga	gcaagccaca aaacagccac tgagcaacca tcttctttgg tccataggag ctgacctct gggtggacgt gtgtccagat gtgtccagat ctctgagcct ttgatgcagg gtaactatct tggtcttgg ataaaatata tttggagaat caaaaagtga gtcctcggg tgcctttcca aaaagttccc cctactctgt atcaaatgta atgtcctcta gccaataaaa gactcgtatc aactcaaatc agattaaaaa gctttaacta aatgttttat	Homo sapiens
255	3855	G Protein- Coupled Receptor GPR19	NP_006134.1	MVFAHRMDNS KPEVATASI FVLIQFTTGR KRMIAASWIF LFYQVIKYY HEQDYKSSSL TTSSRMAKKN	KPHLIIPILL FFGILWLFPSI WTGSAFCKV DAGFTVPVLF WRIGTDGRV VFTAITWISF YVGISEIPSM	VPLQNRSCTE FGNSLVCLVI VRYFYLLTPG FYGSNWDSC RRTMNIPT SSASAKPTLY AKTITKDSIY	TATPLPSQYL HRSRRTQSTT VQIYVLLSIC NYFELSSWEG KVKTIKMFEL SIYNANFRRG DKETFCSSM	MELSEHSWM NYFVVSMA IDRFYIVYV TAYTVIHFLV LNLLFLLSWL MKETFCSSM KCYRSNAYTI PNTFV	SNQTDLHYVL DLLISVASTP LSFKVSREKA GFVIPSVLII PFHVAQLWHP KCYRSNAYTI PNTFV	Homo sapiens
256	3856	G Protein- Coupled Receptor GPR2/CCR10	NM_016602	agagatgggg ggacgcatac cagccggggc tggcctgggc	acggaggcca tcggctgagc ttcccaacca ctggccaccc	cagagcaggt cactgcggga gtgtctccct acctggcagc	ttctggggc gtcttgctac gacctgggtc cgacgcgca	cattactctg aagccgatg gcgctgggtc cgcgctcgc	gggatgaaga tccaggcctt tggccggcaa ccacctctgc	Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtctc cagctggccc tggcgacct cttgtgtgcc ctgactctgc ccttcgaggc</p> <p>agcaggggct cttcagggct ggagtcctgg aagtgcacc tgccgcacca tctctggcct</p> <p>ctactcggcc tcttccacg cgggtctctt cttcttgccc tgatcagcg ccgaccgcta</p> <p>cgtggccatc ggcgagcgc tccagccgg cctgcggccc tccactcccc gccgcgcaca</p> <p>cttggctctc gtcactgtgt gctgtgtgtc agctgtctgc ggcgtgcctg cgtgtctctt</p> <p>cagccaggat ggcagcggg aaggccaacg acgtgtgc ctcactcttc ccgagggctt</p> <p>cacgcagacg gtgaagggg cgagcgccgt ggcgcagggt gccctgggct tgcgctgcc</p> <p>gctgggctc atgttagcct gctacgcgt tctgggcgc acgtgtctg ccgccagggg</p> <p>gccgagcgc cggcgtgcg tgcgctgtt ggtggctctg gtcggcgcct tctgtgtgt</p> <p>gcagctgccc taagcctcg cctgtgtct gatactgccc gatctactgg ctgcgcgca</p> <p>gcggagctgc cctgccagca aacgcaagga tgtgcactg ctggtgacca gggccttggc</p> <p>cctcggccc tgtggcctca atccgttct ctacgcctt ctgggcctgc gcttcgcga</p> <p>ggacctggc agctgtctac ggggtgggag ctgcctcca gggcctcaac ccgcgcgg</p> <p>ctgccccgc cggccccgc ttcttctctg ctacgtccc acgagagccc acagtctctc</p> <p>ctgggacaac taggctgcg aatctagag agggggcag ctgagggctc tgggaaagg</p> <p>gagtaggtg ggaacactg agaaagagg agggacctaa agggactacc tctgtgcctt</p> <p>gccacattaa attgataaca tggaaatgaa aaaaaaaaaa aaaa</p> <p>LVLAATHLAAR RAARSTSAH LLQLALADLL CYKADVQAFS RAFQPSVSLT VAALGLAGNG P</p> <p>SASFHAGFLF LACISADRYV AIARALPAGP RSTPGRAHL VSVIVLLSL LLALPALLFS</p> <p>QDGQREGQRR CLRIPEGLT QTVKGASAVA QVALGFALPL GVMVACYALL GRTLLAARGP</p> <p>ERRRALRVV ALVAEFVLQ LPYSLALLD TADLLAARER SCPASKRKDV ALLVTSGLAL</p> <p>ARCGLNPLY AFLGLRFRQD LRRLLRGSS PSQPQRRGC PRRRLSSCS APTETHSLSW</p> <p>DN</p>	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgccctctg tgtctcagc ggggccctcg gccggggcag tcccaatgc caccgagtg A</p> <p>acaacagtgc ggaccaatgc cagcgggctg gaggtgcccc tgttccacct gtttgcccg</p> <p>ctggacgagg agtgcattg cacttccca ggcctgtgcg tggcgtgat ggcgtgcac</p> <p>ggagccatct tcttgccag gctggtgctc aacgggctgg cgtgtactt cttctgctgc</p> <p>cgcacccggg ccaagacacc ctacgtcatc tacaccatca acctggtggt gaccgatcta</p> <p>ctggtagggc tgtccctgccc cagcgccttc gctgtgtact acgggcacg ggcgtgcctg</p> <p>cgtgtgctt tccgcacgt cctcggttac ttcctcaaca tgcactgctc cctctcttc</p> <p>ctcacctgca tctgcgtgga ccgtacctg gccactgtgc ggcccgaagc tcccgcgcc</p> <p>tgcggccagc ctgcctgtgc cagggccgtg tggccttcg tgtggctggc cgccggtgccc</p> <p>gtcacctgt cgggtcgtgg cgtgacagc agccggccct gctgcgtgt ctttgctg</p> <p>actgtcctgg agttcctgct gcccctgctg gtcatacagc tgtttaccg ccgcatcatg</p> <p>tgtgcaactg cgcggccggg tctgtccac caggggtgcc agcgcgggt gcgggccatg</p> <p>cagctcctgc tcacgggtgct catcatctt ctgctctgct tcacgcctt ccacgccgc</p> <p>caagtggccg tggcgtgtg gccgacatg ccacaccaca cgaacctcgt ggtctaccac</p> <p>gtggcgtga cctcagcag cctcaacagc tgcattggacc ccactgtcta ctgcttcgtc</p> <p>accagtggct tccaggccac cgtccgagg cttctggcc agcacggaga gcgtgagccc</p> <p>agcagcgggt acgtgggtcag catgcacagg agtcccaagg gctcaggcgc tcatcacatc</p>	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcacgc cctcacccag gccctggcta atggggcccg ggccttag MPSVSPAGPS AGAVPNATAV TTVRTNASGL EVPLFHLFAR LDEELHGTFP GLCVAlMAVH P GAIFLAGLVL NGLALVFFCC RTRAKTPSVI YTNLNVTDL LVGLSLPTRF AVYVGARGCL RCAPPHVLGY FLNMHCSILF LTCICVDRYL AIVRPEAPAA CROPACARAV CAFVWLAAGA VTLSVLGVTG SRPCRVPAL TVLEFLPLL VISVFTGRIM CALSRPGLLH QGRQRRVRAM QLLLTLIIF LVCFTPFHAR QVAVALWPDH PHHTSLVYH VAVTLSSLSN CMDPIVYCFV TSGFQATVRG LFGQHGEREP SSGDVVSMHR SSKSGSRHHI LSAGPHALTQ ALANGPEA atgaactcca ccttgatgg taatcacagc agccaccctt ttgcctctt ggcattggc A tattggaaa ctgtcaattt ttgcctttg gaagtattga ttattgtctt tctaactga ttgattattt ctggcaacat cattgtgatt ttgtatttc actgtgcacc ttgtttgaac catcacacta caagtattt tatccagact atggcatatg ctgacctttt tgttggggtg agctgcgtg ttccctctt atcactctc catcacccc ttccagtaga ggagtccttg acttgccaga tatttggtt ttagtatca gttctgaaga cgtctccat ggccttctg gctgtatca gattgatatg atacattgac attactaac cttaaccta taatacttg gttacacct ggagactacg cctgtgatt ttccgtattt ggcctactc gacctggc ttccctgctt cctttttcca ctggggcaaa cctggatatc atggagatgt gttcagtg tgtgcggagt cctggcacac cgactcctac ttccacctgt tcatcgtgat gatgttat gccccagcag ccttattgt ctgcttcacc tattcaaca tcttcgcac ctgccaacag cacacaaagg atatcagca aaggcaagcc cgcttcagca gccagagtgg gagactggg gaagtgcagg cctgtcctga taagcgtat gccatggtcc tgtttcgaat cactagtga ttttacatcc ctgtgttgcc atatatcat tacttctgt tggaaagctc cactggccac agcaaccgct tcgcatcctt ctggaccacc ttgttgctga ttagtcaac ttctgcaac tgtgtaattt atagtcttc caacagtga ttccaaagag gactaaagcg cctctcaggg gctatgtga cttctgtgc aagtcagact acagccaacg accttacac agttagaagc aaaggccctc ttaatggatg tcatatctga MNSTLDGNQS SHPCLLAFG YLETVNFCLL EVLIIVFLTV LIISGNIIV FVHCAPLNL P HHTSYFIQT MAYADLFVGV SCVPSLSLL HHPLPVEESL TCQIFGVVS VLKSVSMASL ACISIDRYIA ITKPLTYNTL VTPWRLRLCI FLIWLSTLV FLPSFFHWGK PGYHGDVFWQ CAESWHTDSY FTLFIVNMLY APAALIVCFT YFNIFRICQQ HTKDISERQA RFSSQSGETG EVQACPDKRY AMVLFRTSV FYILWLPYII YFLLSSTGH SNRFASFLT WLAISSNSFCN CVIYSLNSV FQGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI atgtgttttt ctcctattct ggaatacaac atgcagctg aatctaact tacagtgcga A gatgacattg atgacatcaa caccaatag taccacacc tatcatatcc gtaagcttt caagtgtctc tcaccgatt tcttatgta gaaattgtgt tgggactgg cagcaacctc actgtattgg tactttactg catgaaatcc aacttaatca actctgcag taacattatt acaatgaatc ttcatgtact tgatgtaata atttgtgtg gatgtattcc tctaactata gttatccttc tgccttccact ggagagtaac actgctctca ttgtctgtt ccatgaggct tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgctatcac ttggacaga tatgacatct ctgtaaaacc tgcaaacgca atcttgacaa tgggagagc tgtaattga atgatatcca ttgtgattt ttctttttt tctttctga ttcttttat tgaggtaaat	Homo sapiens
260	3858	G Protein- Coupled Receptor GPR21	NM_005294		Homo sapiens
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1		Homo sapiens
262	3859	G Protein- Coupled Receptor GPR22	NM_005295		Homo sapiens

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p> tttttcagtc ttcaaaagtgg aaatacctgg gaaaaacaaga cacttttatg tgtcagtaca aatgaatact acactgaact gggaatgtat taccacctgt tagtacagat cccaatattc tttttcactg ttgtagtaat gttaatcaca tacaccaaaa tacttcaggc tcttaattat cgaataggca caagattttc aacaggggcag aagaagaaag caagaaagaa aaagacaatt tctctaacca cacaacatga ggtcacagac atgtcacaaa cagtggtggg gagaaatgta gtcttttggtg taagaacttc agtttctgta ataattggcc tccggcgagc tgtgaaacga caccgtgaac gacgagaaag acaaaagaga gtcttcagga tgtctttatt gattatttct acatttcttc tctgctggac accaatttct gtttaataa ccaccatttt atgttttaggc ccaagtgaac ttttagtaaa attaagattg tgttttttag tcatggctta tggaaacaact atatttcacc ctctattata tgcattcact agacaaaaat ttcaaaaaggc cttgaaaaagt aaaaatgaaa agcgagttgt ttctatatga gaagctgac cctgcctaa taatgctgta atacacaact cttggataga tcccaaaaga acaaaaaaa ttacctttga agatagtga ataagagaaa aacgttttagt gcctcaggtt gtacacagact ag MCFSP1LEIN MQSESNITVR DDIDDINTNM YQPLSYPLSF EIVLGLGSNL P TVLVLYCMKS NLINSVSNII TMNLHVLVDI ICVGCIPLTI VILLSLESN TALICCFHEA CVSFASVSTA INVFAITLDR YDISVKPANR ILTMGRAVML MISIWIFSF SFLIPFIEVN FFSLQSGNTW ENKTLICVST NEYYTELGMY YHLLVQIPIF FFTVVVMLIT YTKILQALNI RIGTRFSTGQ KKKARKKKTI SLTTOHEATD MSQSSGGRN VFGVTSVSV IIALRRRAVKR HRERRERQKR VERMSLLIIS TFLCWTPI S VINTILCIG PSDLLVKLRL CFLVMAYGTT IFHPLLYAFT RQKFQKVLKS KMKKRVVSIV EADPLPNNAV IHNSWIDPKR NKKITFEDSE IREKRLVPQV VTD </p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p> atgttgtgtc cttccaagac agatggctca gggcactctg gtaggattca ccaggaaaact A catggagaag gtaaaaggga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacgggtgg gtcgctggag gctgagcatg ccagcaggat gtcatgtctc agagcaaaagc ccatgtcaaa cagccaacgc ttgctccttc tgtcccagg atcacctcct cgcacgggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctctgggca tcatcgggaa ctccacggtc atcttcgcgg tctgtgaaga gtccaagctg cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgcccct catgatccac cagctcatgg gcaatggggt gtggcacttt ggggagacca tgtgcacctt catcacggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgccatggc cattgaccgc taactggcca ctgtccacc catctcttcc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gcctccttg ggccctctcc ttcacagca tcacccctgt gtgctgtat gccagactca tccccttccc aggaggtgca gtgggctgcg gcatacgctt gcccaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggccttgcc cctgcctttt tgggtcatca cagccgcata cgtgaggatc ctgcagcgca tgacgtcttc agtggccccc catcgccatc tctttgtgtg ctgggcaccc aagagggtga cccgcacagc catcgccatc tgtctggtct tctttgtgtg ctgggcaccc tactatgtgc tacagctgac ccagttgtcc atcagccgcc cgaccctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gcacaacagc cctcaaccc ctttgtgtac atcgtgctct gtgagcgtt ccgcaaacgc ttggtcctgt cgggtgaagc tgcagccccag gggcagcttc gcgctgtcag caacgctcag acgggtgac agagaggac agaaagcaaa </p>	Homo sapiens

[illegible]

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	gacctcacct actattcaga gacaaacagt gacaggacct atgtgatgt ggccttagtg tggggagggt ccttgggcct ggggtgctgt cctgtgctgg cctggaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctggtagt tctggccatt gccttcttca tgggtgtttg catcatgctg tgccttcag cggcacctgc ccaaatctg ccgcatcgctc tgcgcctatg ccagcagatg cactcttccg cactggcc gtggtgcttg cgccttttgc cgcctgttg gcaacccgca agggcattgc cacactggcc gtggtgcttg ggccttttgc cgcctgttg ttgccccttca ctgtctactg cctgtgggt gatgcccact ctcacacctt ctacacctat cttaccttgc tccctgcccac ctacaactcc atgatcaacc ctatcatcta cgccttccgc aaccaggatg tgcagaaagt gctgtgggt gctgtgctgt gctgttcttc ttccaagatc cccttccgat cccgtccccc cagtgtgtc tag VVAIIIVGTPA FRAPMELLVG SLAVADLLAG TGPAAPLPSP KAWDVVLCIS GTLVSCENAL P TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYVMILALV WGGALGLGLL PVLAWNCLDG LITCGVVYPL SKNHLVVLAI AFFMVEGIML QLYAQICRIV CRHAQIHALQ RHLLPASHYV ATPKGIATLA VVLGAFACW LPFTVYCLLG DAHSPLYTY LTLPLATYNS MINPIIYAFR NQDVQKVLWA VCCCSSSKI PFRSRSPSDV	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	atgccattcc caaactgtc agccccagc actgtggtgg ccacagtgt ggggtgtctt A ctggggctgg agtgtgggt ggtgtgctg ggaacgcgg tggcgtgtg gaccttctg ttccgggtca ggggtgtgaa gccgtacgt gtctacctgc tcaacctggc cctggctgac ctgctgttgg ctgctgctc gcttttctg gccgcttct acctgagcct ccaggcttgg catctgggcc gtgtgggctg ctgggccctg cgttttctg tggacctcag ccgacgctg gggatggcct tccgtggcgc cgtggctttg gaccgtacc tccgtgtggt ccacctcgg cttaagggtca acctgtgtc tctcaggcg gccctggggg cctcggcct cgtctggctc ctgatggtcg ccttcacctg cccgggctg ctcatctctg aggcggccca gaactccacc aggtgccaca gtttctactc cagggcagac ggtccttctca gcatcatctg gcaggaagca ctctctgccc ttcagtgtgt cctccccctt ggcctcatcg tgttctgcaa tgcaggcatc atcagggtc tccagaaaag actccgggag cctgagaaac agcccaagct tcagcgggcc caggcactgg tcaccttgtt ggtggtgctg tttgtctgt gctttctgct ctgcttctg gccagagtcc tgatgcacat cttccagaat ctggggagct gcaggggcct ttgtgcagt gctcatacct cggatgtcac gggcagcctc acctacctgc acagtgtgt caacccctg gtatactgt tctccagccc cacttccagg agtctctatc ggagggtctt ccacacctc cgaggcaag ggcaggcagc agagccccc gaattcaacc ccagagactc ctattcctga MPFNCAPS TVVATAVGL LGLECGLL GNAVALWTFV FRVRVWKPYA VYLLNLALAD P LLLAACLPFL AAFYLSLQAW HLGVRGCMAL RFLDLRSV GMAFLAAVAL DRYLRVWHPR LKVNLSPQA ALGVSLVWL LMVALTCPGL LISEAAQNST RCHSFYSRAD GSFIIWQEA LSCLOFVLPF GLIVFCNAGI IRALQKRLRE PERQPKLQRA QALVTLVVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHVVNPV VYCFSSPTFR SSYRRVFEHTL RGKGQAAEPP DFNPRDSYS	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	gacctcacct actattcaga gacaaacagt gacaggacct atgtgatgt ggccttagtg tggggagggt ccttgggcct ggggtgctgt cctgtgctgg cctggaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctggtagt tctggccatt gccttcttca tgggtgtttg catcatgctg tgccttcag cggcacctgc ccaaatctg ccgcatcgctc tgcgcctatg ccagcagatg cactcttccg cactggcc gtggtgcttg cgccttttgc cgcctgttg gcaacccgca agggcattgc cacactggcc gtggtgcttg ggccttttgc cgcctgttg ttgccccttca ctgtctactg cctgtgggt gatgcccact ctcacacctt ctacacctat cttaccttgc tccctgcccac ctacaactcc atgatcaacc ctatcatcta cgccttccgc aaccaggatg tgcagaaagt gctgtgggt gctgtgctgt gctgttcttc ttccaagatc cccttccgat cccgtccccc cagtgtgtc tag VVAIIIVGTPA FRAPMELLVG SLAVADLLAG TGPAAPLPSP KAWDVVLCIS GTLVSCENAL P TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYVMILALV WGGALGLGLL PVLAWNCLDG LITCGVVYPL SKNHLVVLAI AFFMVEGIML QLYAQICRIV CRHAQIHALQ RHLLPASHYV ATPKGIATLA VVLGAFACW LPFTVYCLLG DAHSPLYTY LTLPLATYNS MINPIIYAFR NQDVQKVLWA VCCCSSSKI PFRSRSPSDV	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctgggtgacct tacttatctc tgttgctttc tggggctccta ggaaatgcca gcactccac A ccacattgcc tgaactttcc aacactccct agctgcgctg tgtctctatc caacacttcc tcatgtattt cttgtgtctt ctagaacatt cccccccat tattacttca atatggctac	Homo sapiens

GPR4

acatacttcc taatggccct gaaaccatc tccctctcac ccttgcccag cgatgcttcc
gtctctctca taacactcc cggagaccaa tttttgtgtc acccccatatc tccctcgttg
acacactgac tccatacata acctccttga aaaacctctt tatlaatctc accatcctcc
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ttccagccc gcttcaagg aaggggctca gggggcccca tggcctcccc ctccctgtgg
gttcccttga gcttcaagg aaggggctca gggggcccca tggcctcccc ctccctgtgg
ccccacagcc cccgtgggccc aggggaagcg cccagaaagc cgaagtggccc accatgggca
accacacgtg ggagggtgccc cactgggact cgcgcgtgga ccacctctt cgcgcatccc
ttatcatctt tgtcatcggc gtggggctgc ccaccaactg cctgggtcttg tggcgggcct
accgccaagg gcaacagcgc aacgagctgg gcgtctacct gatgaacctc agcatcgcg
acctgctgta catctgcacg ctgccgctgt ggggtgacta ctctcggac cagacaact
ggatccacgg cccgggtccc tgcaagctct ttgggttcat ctctacacc aatatctaca
tcagcatcgc ctctctgtgc tgcattctcg tggaccgcta cctggctgtg gccaccac
tcgcttctgc cgccttgcgc cgcgtcaaga ccgcctgggc cgtgagctcc gtggtctggg
ccacggagct gggcgccaac tcggcgccc tglttccatga cgaactcttc cgagaccgt
acaaccacac ctctctctt gagaaattcc ccatgttccc ccatgttggc tggatgaacc
tttatcgggt gtctgtgggc ttctcttccc cgtgggcgtc catgtgtctg tctgaccggg
gcatactgct ggcgttgcgg ggcagcgtgt ccacgagcg ccaggaaga gccaagatca
agcggctggc cctcagctc atgcctatc tgcgtgtctg tcttgcgcc taccacgtg
tcttctgtc ccgcagccc atctacctg gccgcccctg ggaactgggc ttcgaggagc
gcgtcttctc tgcataccac agctcactgg ctttaccag cctcaactgt gtggcgagc
ccatctctta ctgcctgtgt aacgaggcg ccgcagcga tgtggccaa ggcctgcaca
acctgctccg ctcttctggc agcagaaag cccagagat ggcgaatgccc tgcctacccc
tggagacccc actcactccc aagaggaaca gcacagcaa agccatgact ggcagctggg
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gaaccccgag tggcacagaa tcccagttt tcccctctca tcccacagtc ccttctctcc
tggctctggg tatgcaaat tgggtgtca agggctgtgt taatttcat aagaatacaa
gaacttagga agagtgaagt tgggtgtca ctggtcaacc tttgtgtccc cagatcccat
cacagtgtg cgattgtgga gggcctcctg aaggaggaga tgagtaata tattttttg
gagacaggggt ctactgtgt tgcacaggct agtgcagtc agtgcagtc tggctcactg
cagctccac ctctgggt ctccagcgt ctccacat cagcctccc agtagctggg
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caacatttg gtttccagaa aataaagaca atagagaag gttagatttt ttttttcca
acaagtggat aaaagtctgt gactcggggg aaagtggaa gagaatgca gccgatatag
agtcatatg tttgcaaac cctggtctat acagggccagg gaacataaga ccgcaattct
aagtttctag ataacagcg atctccaagt caagactgag gatgaagg gagaatgtca
gaactcaagt gaaggccaat cagggcagac tgcctggagg agtgaagca gaaggtttg
gaagaagggt tgggacaaga agaaagggt tttattcatt cattcaacag aggtttatgt
aggcactgt gctgggtggg gctgggggaca caacaatgac tggaggcagc tggccttggc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacagggc tcaccatata caagtaaaata aaaaatatgt aatgttttga attgct MGNHTWEGH VDSRVDHLFP PSLYIFVIGV GLPTNCLALW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWTHPGSC KLFGEFIFTN IYISIAFLCC ISVDRLAVLA HPLRFARLRR VKTAVAVSSV VWATELGANS APLFHDELEP DRYNHTFCFE KPFMEGWAVW MNLRYRVEVGF LFPWALMLLS YRGILRAVRG SVSTERQEKI KIKRLALSLL AIVLVCFAPY HVLLSRSAL YLGRPWDCGF EERFESAYHS SLAFTSINCV ADPILYCLVN EARSDDVAKA LHNLRLFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tccaggtggg tggtagtggc ggccgaagga A gcggcggcg gcggcacagc agcagggggg gcggacacgg gcgaatgggg accccctgct gcggcgctc taggagccgg cgccggagct aatgggtctc tggagctgtc ctgcagctg tcggctggc caccgggact cctgctgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatcgc tggagaaaac gcgctggtgg tggcgtcat cgcgtccact ccggcgctgc gcacgcccct gttcgtgctg taggagcggc tggccaccgc tgacctgttg gcgggctgtg gctcatctt gcactttgtg ttccagtact tggtgccctc ggagactgtg agctctgctc cgggtggcct cctcgtggcc tcttcgccc gcctgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacggcg tcaactatta ctgcgcccgg accctgttgg gcgtgcacct cctgctggcc gccacttggg ccgtgtccct aggcctgggg ctgctgcccg tctgggctg gaactgctg gcagagcgcg ccgcctgcag cgtgggtgcg ccgctggcg gcagccacgt ggcctgctc tccgcgcct tcttcattgt cctcggcctc atgctgcacc tgtacgtgcg catctgccc gcacgcgcg gtcgtctggc ccacgcgcg ccagatgcg ctgcagcagc actgctggc gccaccctc ctgcgtgcca ccagaaaggg tgtgggtaca ctggctgtgg tctggggcac ttctggcgcc agctggctg ccctggccat ctattgctg gtgggcagcc atgaggaccc ggcggtctac acttacgcca ccctgctgcc cgccacctac aactccatga tcaatcccat catctatgcc ttccgcaacc aggagatcca gcgcgcctg tggctcctgc tctgtggctg ttccagtc aaagtgcct tctgttccag gtctccagc gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	SNVSVVAEG AAAATAAGG PDTGEWGPPA AAALGAGGGA NGSLELSSQL P SAGPPGLLP AVNPWDVLLC VSGTVIAGEN ALVVALIAST PALRTPMFVL VGSLATADLL AGCGLILHFV FQYLPSETV SLLTVGFLVA SFAASVSSLL AITVDRLSL YNALTYYSR TLGLVHLLA ATWTVSLGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMVEGI MLHLYVRICQ VWRHHAHQIA LQHQCLAPPH LAATRKGVT LAVVLGTFGA SWLPFAIYCV VGSHPDPVY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgttctc ggagccctgg ccgcgcaacg catcggggcc ggacccggcg A ctgagctgct ccaacgcgc gactctggcg ccgctgcccg cgccgctggc ggtggctgta ccaattgtct acgcggtgat ctgcgccgtg ggtctggcgg gcaactccgc cgtgctgtac gtgttctgctc gggcgccccg catgaagacc gtcaccaacc tgttcatcct caacctggcc atcgccgacg agctcttacc gctggtgctg ccatcaaca tcgcccactt cctgctgcgg cagtgggcct tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	MDNASFSEPW PANASGPDPA LSCSNASTLA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P VLLRAPRMKT VTNLFILNLA IADELFTLVL PINIADEFLR QWPEGELMCK LIVAIQYNT FSSLYFLVM SADRYLVVLA TAESRRVAGR TYSAARAVSL AVWGIVTLV LPFAVFAFLD DEQRRQCVL VFPQPEAFWM RASRLYTLVL GFAPVSTIC VLYTLLCRL HAMRLDSHAK ALERAKKRV FLVVAIIAVC LLCWTPYHLS TVVALTTDLP QTPLVIAISY FITSLTYANS CLNPFLYAFL DASFRNLRQ LITCRAAA	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	atgcaggcgc ctgggcaacc agagccctt gacagcagg gctccttctc cctccccacg A atgggtgcca agctctctca ggacaatggc actggccaca atgccacctt cctccagacca ctggccgttc tctatgtgct cctgcccgc gtgtactccg ggatctgtgc tgtggggctg actggcaaca cggccgtcat ccttgtaac ctaaggcgc ccaagatgaa gacggtgacc aacgtgttca tccgtaacct ggccgtgccc gacgggctct tcaagctggt actgcccgtc aacatcgccg agcaactgct gcagtactgg cctctcgggg agctgctctg caagctgggtg ctggccgtcg accactacaa catcttctcc agcatctact tccatgcctg gatgagcgtg gaccgatacc tgggtggtgct ggccaccgtg aggtcccgc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgtc tggctgggcg tcaagctcct ggttctgccc ttcttctctt tcgctggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgtagc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtgctgc ccgtgtgcac catctgtgtg ctctacacag acctcctgcg caggctgcgg gccgtgcggc tccgctctgg agccaaggct ctaggcaagg ccaggcgaa ggtgaccgtc ctgggtccctg tcgtgctggc cgtgtgcctc ctctgctgga cgccttcca cctggcctct gtcgtggccc tgaccacgga cctgccccg accccactgg tcatcagtat gtcctacgtc atcaccagcc tcacgtacgc caactcgtgc ctgaacccct tccctacgc ctttctagat gacaacttcc ggaagaactt ccgcagcata ttgcggtgct ga TGNTAVILVI LRAPKMTVT NVFILNLAVA DGLFTLVLPV NIAEHLQYW PFGEILLCKLV LAVDHYNIFS SIYFLAVMSV DRYLVVLTATV RSRHPWRTY RGAKVASLCV WLGVTVLVLP FFSFAGVYSN ELQVPSCGLS FPWPERVWFK ASRVYTLVLG FVLPVCTICV LYTDLLRRLR AVRLRSKAKA LGKARKKTV LVLVVAVCL LCWTFPHLAS VVALTTDLPQ TPLVISMSYV ITSLTYANSC LNPFLYAFLD DNERKNFRSI LRC	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1	MOAAGHPEPL DSRGFSLEPT MGANVSQDNG TGHNATFSEP LPFLYVLLPA VYSGICAVGL P TGNTAVILVI LRAPKMTVT NVFILNLAVA DGLFTLVLPV NIAEHLQYW PFGEILLCKLV LAVDHYNIFS SIYFLAVMSV DRYLVVLTATV RSRHPWRTY RGAKVASLCV WLGVTVLVLP FFSFAGVYSN ELQVPSCGLS FPWPERVWFK ASRVYTLVLG FVLPVCTICV LYTDLLRRLR AVRLRSKAKA LGKARKKTV LVLVVAVCL LCWTFPHLAS VVALTTDLPQ TPLVISMSYV ITSLTYANSC LNPFLYAFLD DNERKNFRSI LRC	Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactaggcga ggcgtccat cggactcaat agccgactc A	Homo sapiens
				atgaatcggc accatctgca ggatcacit ctggaataag acaagaagaa ctgctgtgtg	
				ttccgagatg acttcattgc caagtggtg cgcgcgtgtg tggggctgga gtttatcttt	
				gggtctctgg gcaatggcct tgccctgtgg atttctgtt tccacctcaa gtccctgaaa	
				tccagccgga ttttctgtt caacctggca gtactgact tctactgat catctgcttg	
				ccgttcgtga tggactacta tgtgcgcgct tcaagactga actttgggga catcccttgc	
				cggtggtgc tcttcattgt tgccatgaac cgccaggga gcatcatctt cctcacggtg	
				gtggcggtag acaggtattt cgggtggtc catccccc acccctgaa caagatctcc	
				aattggacag cagccatcat ctcttgcct ctgtgggga tcactgtttg cctaacagtc	
				cacctctga agaagaagt gctgatccag aatggccctg caaatgtgtg catcagcttc	
				agcatctgcc ataccttccg gtggcacgaa gctatgttcc tcttggagtt cctcctgcc	
				ctgggcatca tctgttctg ctacagccga attatctgga gcctgaggga gagacaaatg	
				gaccggcatg ccaagatcaa gagagccatc accttcatca tgggtgtggc catcgtcttt	
				gtcatctgct tcttcccag cgtggttgtg cggatccgca tcttctggct cctgcacact	
				tcgggcacgc agaattgtga agtgtaccg tcggtggacc tggcgttctt tatcactctc	
				agcttcaact acatgaacag catgctggac cccgtggtg actacttctc cagcccatcc	
				tttcccaact tcttctccac ttgatcaac cgtgcctcc agaggaagat gacaggtgag	
				ccagataata accgcagcac gagcgtcgag ctacagggg acccaacaa accagaggc	
				gctccagagg cgttaatggc caactccgtt gagccatgga gccctctta tctgggccc	
				acctcaata accattccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa	
				cagttgggct gttgcatga gtaatgtcac tggactcggc ctaagggttc ctggaacttc	
				cagattcaga gaattcgatt taggaaact gtggcagatg agtggagagac tggttgcaag	
				gtgtgaccac agaatcctg gaggaacaga gactaaagt tctaggcatc tgaaccttgc	
				ttcatctctg acgctcgcag gactgaagt gggcaaatg taggcgttcc tgcagagcag	
				agttggagcc agagatctac ttgtgacttg ttggccttct tccacatct gcctcagact	
				ggggggggct cagctcctcg ggtgatatct agcctgcttg tgagctctag cagggataag	
				gagagctgag attggaggga attgtgtgc tcttgaggga agcccaggca tcattaaaca	
				agccagtagg tcacctggt tccgtggacc aattcatctt tcagacaagc tttagagaaa	
				tggactcagg gaagagactc acatgcttg gtagtatct gtgttccgg tgggtgtaat	
				aggggattag cccagaagg gactgagcta aacagtgtta ttatgggaaa ggaatggca	
				ttgtgcttt caaccagca ctaatgcaat ccattcctct ctgtttata gtaactaaag	
				ggttgagcag ttaaaacggc ttcaggatag aaagctgttt cccacctgtt tcgttttacc	
				attaaaaggg aaacgtgcct ctgcccacg ggtagagggg gtgcacgttc ctctgggttc	
				cttcgcttgt gttctgtac ttacaaaaa tctaccactt caataaat ttagaggaga	
				caaaaaaaaa a	
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	LEIDKKNCCV FRDDFIKVL PPVLGLEFIF GLLGNGLALW IFCFHLKSWK P	Homo sapiens
				SSRIFLENLA VADFLLIICL PFVMDYYVRR SDWNFGDIPC RLVLFEFAMN RQGSIIFLT V	
				VAVDRYFRV HPHALNKIS NWTAAIISCL LMGITVGLTV HLLKKLLIQ NGPANVCISF	
				SICHTFRWE AMFLLEFLP LGIILFCSAR IIVSLQRQM DRHAKIKRAI TFIMVAIVF	
				VICFLPSVV RIRIFWLHT SGTONCEVYR SVDLAFFITL SFTYNSMLD PVVYFSSPS	
				FPNFFSTLIN RCLQRKMTGE PDNNRSTVE LTGDPNKTRG APEALMANS G EPWSPSYLGP	

282	3870	G Protein- Coupled Receptor OGR1	NM_003485	TSNNHKKKGH CHQEPASLEK QLGCIE.	atggggaaca tcaactgcaga caactctctg atgagctgta ccatcgacca taccatccac A cagacgtgg ccccggtggt ctatgttacc gtgctggtgg tggtcttccc ggcacactgc ctgtccctct acttcggcta cctgcagatc aagccccga acgagctggg cgtgtacctg tgcaacctga cgggtggccga cctctttctac atctgtctgc tgcccttctg gctgcagtac gtgctgcagc acgacaaactg gtctcaaggc gactgtctct gccaggtgtg cggcatcctc ctgtacgaga acatctacat cagcgtgggc tctctctgct gcatctccgt ggaccgtctac ctggctgtgg cccatccctt cgccttcac cagttccgga cctgaaggc ggccgtcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggacgagaa ccagcacgc gtgtgctttg agcactaccc catccaggca tggcagcgcg ccataacta ctaccgttc ctggtgggt tctcttccc catctgctg ctgtggcgt cctaccaggg catctcgcc gccgtgccc ggagccacgg caccagaag agccgcaagg accagatcca gggctggtg ctacgacccg tggcatctt cctggcctgc ttctgacctt accagtggt gctgctggtg cgcagcgtct gggagggcag ctgcgacttc gccaaaggcg ttttcaacgc ctaccacttc tccctcctgc taccagctt caactgcctc gccgaacccg tgctctactg ctctgtcagc gagaccaccc accgggacct ggccccctc cgcggggcctt gctggcctt cctcacctgc tccaggaccg gccggggccag ggagggcctac ccgctgggtg ccccgaggc ctccgggaaa agcggggccc aggttgagga gcccgagctg ttgaccaagc tccaccggc cttccagacc cctaaactgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCITDHTIH QTLAPVVVT VLVGFPANC LSLYFGYLIQI KARNELGVYL P CNLTVADLFY ICSLPFWLQY VLOHDNWSHG DLSCQVCGIL LYENIYISVG FLCCISVDYR LAVAHPRFH QFRTLKAAVG VSVIWAKEI LTIYFLMHE EVIEDENQHR VCFEYPIQA WQRAINYYRF LVGFLEPICL LLASYQGILR AVRRSHGTQK SRKDIQRLV LSTVIFLAC FLPYHVLLLV RSVWEASCDF AKGVFNAYHF SLLTSFNCV ADPVLYCFVS ETTHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caccggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggtcgggt ggggccggcc accagcacc tgaatgtcgt gcccggtgtg gtgggcaacg ggcctggcctt gggcatcctg agcgacggc gaccggcgcg cccctggcc ttcgcggtgc tggteaccgg actggcggcc accgacctgc tgggacacag ctctctgagc ccggccgtgt tctgtggccta tgcgcgcaac agctccctgc tgggcttggc ccgagggcgc cccgcctgt gcgatgctt cgccttcgcc atgaccttct tgggcttggc gtccatgctc atcctctttg ccatggcctt ggagcgtgc ctggcgctga gccacccta ctctacgcg cagctggagc ggccccctg cggccgctg gcgtgcccag ccattacgc ctctgcgtc ctctctgctg cgtgccccct gctgggctg ggccaaacac agcagtactg ccccggcagc tgggtgttcc tccgcatgct ctgggccccg ccggggcggc cgccttctc gctggcctac gccggcctgg tggccccctt ggtggctgcc atcttctctt gcaacggctc ggtcacctc agcctctgcc gcatgtaccg ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggacgaggt ggaccacctg	Homo sapiens	

285	3921	Prostacyclin NP_000951.1 Receptor	atcctgtgg cccatcatgac agtgggtcatg gccgtgtgct cccgtgcctct cagcatccgc tgcttacc aggtgtgc cctgacagc agcagtga cctgggaccc ccttgccttc cgcttctacg ccttcaacc cactctggac ccttgggtct tcatcctttt cgcgaagct gtcttccagc gactcaagct ctgggtctgc tgcctgtgcc tcgggcctgc cccctctgct tcgcagacac ccttttccca gctgcctcc gggagaggg acccaagggc cccctctgct cctgtggaa aggaggggag ctgctgctt tgtctggctt gggcagagg gcaggtggag cccttgctc ccacacagca gtccagcggc agcgcctgg gaacgtctgc caagcagaa gccagctgc cctgctccct ctgctgacat ttcaagctga cccgtgtgc tctgctctgt cttcgggga caggagccag aaatcaggg acatggctga tggctgcga tctggaacc ttggccccc aactctggg cctgacagct gctgttctc ctgctggcagg gcagctgctg ctggctctgg gaagagagt agggacagag gaaacgttta tccctggagt cagaaagaat ggtctctca aaataaccag tggcctggc gacctgctc ggcctggat tcccattcca tctcattgtc taaatattta gaaggcggag agttccccc aggttctctg acagtcaggt ctgctctggt ctgggtgctg gctccaatct gcgtccactt aggagccca actgcccacc ccaagtccc aggggatggc cctcccctc taccagacca ctccaagagc cagccccctt tctgctccac aaaaaccaca gttattgaa aagctccctg ccttcccttg cgcgtgtcc cccaccaggc ttgggagccc tggcatccca aaggggaaac gggaggaagg ggagctgct gcattgtggg tgatgacgta ggacatgtgc ttggtacaaa aaggcctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin D2 Receptor	llgtsflspa vfvayarnss llglarggpa lcdafafamt ffglasmlil famaercla lshpylyaqL dgprcarlal paiyafcvlf calpllglgq HQYCPGSWC FLRMWAQPG GAAFSLAYAG LVALLVAAIF LCNGSVTLISL CRMYRQQRH QGSLGPRPT GEDEVHLLIL LALMTVMVAV CSLPLTIRCF TQAVAPDSSS EMGDLIAFRE YAFNPILDPW VFILFRKAVE ORLKLWVCL CLGPAHGDSQ TPLSQLASGR RDPRAAPV KEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctgggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcggca A cccgctcc tgcacaggg actgtgccga gccgcgcgcg gacgggaggg aagcgtcccc tcagccccctg gaggagctgg atcacctct gctgctggcg ctgatgaccg tgctcttcac tatgtgtct ctgcccgtaa ttatcgcg cttactatga gcattaaagg atgtcaagga gaaaaacagg acctctgaag agcagaaga cctccagcc ttgcgatttc tatctgtgat ttcaattgtg gaccttgga tttttatcat tttcagatct ccagttattc ggatattttt tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gttttcact ctgtggttaag ctgaggaata tgtcacattt tcagtcgaag aacca	Homo sapiens
287	3923	Prostaglandin Q13258 n D2 Receptor	mkspfyrcon ttsveknsa vmggvlfstg llgnllalgl larsglwcs rrplrlpsv P fymvlcgltv tdlgkclls pvvlaayaqn rslrvlapal dnlcqaaf fmsffglst lqlamalec wslghpffy rrhitrlga lvapvsafls lafcalfmg fgkfvqycpg twcfiqmve egslsvlgys vlysslmall vlatvncnlg amrnlyamhr lqrhprst rdcaepradg reaspoplee ldhllllalm tvlftmcslp viyrayycaf kdveknsrt eeaedlralr flsvisivdp wififrspv friffhkifi rplrysrscs nstnmessl	Homo sapiens

[illegible]

291	3925	Prostaglandin E2 Receptor EP2	NP_000947.1	<p>tgcgtgcgc tgcgtgacta tgggcagtac gtccagtlact gccccgggac ctggtgcttc atccggcacg ggcggaccgc ttacctgcag ctgtacgcca cctgtctgct gcttctcatt gtctcggtgc tgcctgcaa cttcagtgct accctccctg ggcagtgccc cggggccgcg agccggagaa gccgctgcgg accctccctg ggcagtgccc cggggccgcg aggagagggg aaagggtgtc catggcgag gagacggacc accctcattct cctggctatc atgaccatca ccttcgcccgt ctgctccctg ctttcacga tttttgcata tatgaatgaa acctctccc gaaaggaaaa atgggacctc caagctctta ggtttttatc aattaattca ataattgacc cttgggtctt tgccatcctt aggcctcctg ttctgagact aatgcgttca gtcctctgtt gtcggatttc attaagaaca caagatgcaa cacaaacttc ctgttctaca cagtcagatg ccagtaaaaca ggcagacctt tgaggctcagt agtttaaaag ttcttagtta tatagcatct ggaagatcat tttgaaattg ttccctggag aaatgaaaaac agtgtgtaaa caaatgaag ctgcctaata aaaaaggagt atacaacat ttaagctgtg gtcaaggcta cagatgtgct gacaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtacttgccc ttggaggaa caatcggctg cattgaagat ccagctgcct attgatttaa gcttctcgtg tgaatgaaa agtatgtggt ttgttaattt gtttgaacc ccaaacagt actgtacttt ctattttaat cttgctacta cgtttataca catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaatatg tggaagcaac caagcctgct gcttgtgat cacttagcga accctttatt tgacaatatg agttgaaaat cataggcacc ttttactgtg atgtttgtgt atgtgggagt actctcatca ctacagtatt actcttacia gagtgacctc agtgggttaa catcagtttt gtttactcat cctccaggaa ctgcaggtca agtgtcagg ttattttatt tataatgtcc atatgctaag agtgatcaag aagacttttag gaatggttct ctcaacaaaga aataatagaa atgtctcaag gcagttaatt ctcataataa ccttattatt cctattttctg ggggaggagac tacgtggcca tgtatgaagc caaatattag ccttaaaaaa tgaaaaatct ggttcattct tcagatatac tggaaccttt ttaaagttga tattggggcc atgagtaaaa tagattttat aagatgactg tgtgtgacca aaattcatct gtctatattt tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataa tttctaaaatg tttggcatgt aaatgtaaac tcagcatcaa aatatttcag tgaatttgca ctggtttaatc atagttactg tgtaaaactca tctgaaatgt tacaaaaata aactataaaa Ca</p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p>MGNASNDQS EDCETQWLP PGESPAISSV MFSAGVLGNL IALALLARRW RGDVGCSAGR P RSSLSLFHVL VTELFTDLL GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFFS LATMIMLFAM ALERYSIGH PYFYQRRVSA SGGLAVLPVI YAVSLLFCSL PLIDYGQYVQ YCPGTWCFFIR HGRTAYLIQLY ATLLLLIIVS VLACNFSVIL NLIRMHRRSR RSRGPGSLGS GRGGPGARRR GERVSMAEET DHLILLAIMT ITFAVCSLPF TIFAYMNETS SRKEKWDLQA IRFLSINSII DPWFVAILRP PVLRLMRSLV CCRISLRTQD ATQSCSTQS DASKQADL</p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	<p>accagaggtt tcccagagag gaaggcgtgg ctccctcccg ggccagttag ccttggcgcc A gccgcggccg cggctcccagc agcggagtag ggcggcggtt gcgcccgcga ccatgggggg cagcccagcc ccagcgcggg taaacgcga cctccgcgcg cgcgcgcgcg cggtctgccc</p>	Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	ac	<p> MKETRGYGGD APFCTRNLNHS YTGWAPERS AEARGNLTRP PGSGEDCGSV SVAFPITMLL P TGFGVGNALAM LLVRSRYRRR ESKRKKSFLI CIGWLALTDL VGQLLTPVW IVVYLSKQRW EHIDPSGRLC TFFGLTMTVF GLSSLFIASA MAVERALAIR APHWYASHMK TRATRAVLIG VWLAVLAFAL LPVLGVGGYT VQWPGTWCFI STGRGNGTCS SHNNWGNLFF ASAF AFLGLL ALTVTFSCNL ATIKALVSRK RAKATASQSS AQWGRITTTET AIQLMGIMCV LSVCSPLLI MMLKMIENQT SVEHCKTHE KQKECNFFLI AVRLASLNQI LDPWVYLLLR KILLRKFCQM RKRLIREQEM GPDGRCFCHA WRQVPRTWCS SHDREPCSVQ LS cggsacagcc tcacacccga acgctgtcct ccgcagacg agaccggcgg gcactgcaaa A gctgggactc gctcttgag gaaaaaaat agagagtag aatccagca ccattcttca ctgacccatc ccgctgcacc tctgtttcc caagttttg aaagctggca actctgacct cgggtgtccaa aaatcgacag ccaactgagac cggctttgag aagccgaaga ttgtgagtt </p>	Homo sapiens
295	3927	Prostaglandin E4 Receptor EP4	NM_000958		<p> cggsacagcc tcacacccga acgctgtcct ccgcagacg agaccggcgg gcactgcaaa A gctgggactc gctcttgag gaaaaaaat agagagtag aatccagca ccattcttca ctgacccatc ccgctgcacc tctgtttcc caagttttg aaagctggca actctgacct cgggtgtccaa aaatcgacag ccaactgagac cggctttgag aagccgaaga ttgtgagtt </p>	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	MSPTGNSSA SLSPDRLNSP VTIPAVMFIF GVGNLVAIV VLCKSRKEQK ETTFTLVCG P	Homo sapiens
				tccagactga gcaggacaag gtgaaagcag gttggaggcg ggtccaggac atctgagggc	
				tgaccctggg ggctcgtgag gctgccacog ctgctgcgcg tacagaccca gecttgcact	
				ccaaggctgc gcaccgccag ccactatcat gtccactccc ggggtcaatt cgtccgcctc	
				cttgagcccc gaccgctga acagcccagt gaccatcccc gcggtgatgt tcatcttcgg	
				ggtggtgggc aacctggtgg ccatcgtggt gctgtgcaag tcgcgcaagg agcagaagga	
				gacgaccttc tacacgctgg tatgtgggct ggtgtacc gacctgttgg gcactttgtt	
				ggtgagcccc gtgacacatc ccaactatcat gaaggtccaa tggcccgggg gccagccgct	
				gtgcgagtac agcaccttca ttctgctctt cttcagccctg tccggcctca gcatcatctg	
				cgccatgagt gtcgagcgct acctggccat caacctagcc tatttctaca gccactacgt	
				ggacaagcga ttggcgggcc tcacgctctt tgcagtctat gcgtccaaag tgcctctttg	
				cgcgctgcc aacatgggtc tcggtagctc gcggctgcag taccagaca cctggtgctt	
				catcgactgg accaccaacg tgacggcgca cgccgctctc tccatcatgt acgcgggctt	
				cagctccttc ctcatctcgt ccaccgtcct ctgcaacgtg cttgtgtgcg gcgcgtgct	
				cgcatgcac cgccagtcca tgcgcgcgac ctgcgtggcg accgagcagc accacggcg	
				cgcgccgcc tgggttgctt cccggggcca ccccgctgcc tcccagcct tgcgcgcct	
				cagcgacttt cggcgcgcc cgagcttcgg ccgcatcgcg ggcgcgaga tccagatggt	
				catcttactc attgccact cctggtggt gctcatctgc tccatccgc tctggtgctg	
				agtattcgtc aaccagttat atcagccaag ttggagcga gaagtcagta aaaatccaga	
				tttgcaggcc atccgaattg cttctgtgaa cccatccta gaccttga tatatactt	
				cctgagaaag acagtgtcca gtaagcaat agagaagatc aaatgctct tctgcgcct	
				tggcggtgcc cgcaggagc gtcgcggaca gctcgtcca gacagtcaaa ggacatcttc	
				tgccatgtca ggcactctc gctcctcat ctcgcgggag ctgaaaggaga tcagcagtac	
				atctcagacc ctcctgccag acctctact ggcagacctc agtgaataatg gcttggagg	
				caggaatttg cttccaggtg tgcctggcat gggcctggcc caggaaagaca ccacctcact	
				gaggactttg cgaatatcag agacctcaga ctcttcacag ggtcaggact cagagagtgt	
				cttactggtg gatgaggctg gtgggagcgg cagggctggg cctgccccta aggggagctc	
				cctgcaagtc acatttccca gtgaaacact gaacttatca gaaaaatgta tataataggc	
				aaggaaagaa atacagtact gtttctggac cctataaaa tctgtgcaa tagacacata	
				catgtcacat ttagctgtgc tcagaaggcg tatcatca	
				LAVTDLLGTL LVSPVTIATY MKGQWPGGQP ICEYSTFILL FFSLSGLSII CAMSVERYLA	
				INHAYFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPDWTC FIDWTTNVT	
				HAAYSIMYAG FSSFLILATV LCNVLVCGAL LPMHRQFMRR TSLGTEQHHA AAAASVASRG	
				HPAASPALPR LSDFRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLV RVFVNQLYQP	
				SLREVSXNP DLQAIRASV NPILDPWYI LRKTVLSKA IEKIKLFCR IGGSRRRSG	
				QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLIPDLS LPDLSNGLG GRNLLPGVPG	
				MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGAPKGS SLQVTFPSET	
				LNLSEKCI	
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	ggcgcggggc gccatggcac accgagcggc tccgtcttct gctcctcaga gagcccggt A	Homo sapiens
				ggcgcgcttg gatgacaaga tgtctggact gcaatcctgc acagttttga gagggagatg	
				acttgagtgg ttggctttta tctccacaac aatgtccatg aacaattcca acagctagt	

gtctcctgca gctgcgcttc ttcaaacac aactgccag acggaaaacc ggctttccgt
atctttttca gtaattttca tgacagtggg aatcttgtca aacagccttg ccatcgccat
tctcatgaag gcatatcaga gatttagaca gaagtccaag gcatcgtttc tgcttttggc
cagcgccctg gtaatcactg atttctttgg ccatctcatc aatggagcca tagcagtatt
tgtatatgct tctgataaag aatggatccg ctttgaccac tcaaatgtcc ttgacagtat
ttttggatc tgcattgtgt ttcttggtct gtgccactt cttctaggca gtgtgatggc
cattgagcgg tgtattggag tcacaaaaac aatatttcat ttacacgaaa ttatctgccc
acatgtgaaa atgatgttaa gtggtgtgtg cttgttttgt gttttcatag ctttgcctgc
catccttggg catcgagact ataaaattca gggtcgagg acctggtgtt tctacaacac
agaagacatc aaagactggg aagatagatt ttatcttcta cttttttctt ttctggggct
cttagccctt ggtgtttcat tgttgtgcaa tgcaatcaca ggaattacac ttttaagagt
taaatttaaa agtcagcagc acagacaagg cagatctcat catttggaat tggtaatcca
gtcctggcg ataattgtgt tctcctgtat ttgttgagg ccatttcttg ttacaatggc
caacattgga ataatggaa atcattctct ggaacacctg gaaacaacac tttttgctct
ccgaatggca acatggaaatc aatctttaga tcttggggtg tatattcttc tcgaaaaggc
tgtccttaag aatctctata agcttgccag tcaatgctgt ggagtgcatt tcatcagctt
acatatattg gagcttagtt ccattaaaaa ttctttaaag ttgctgcta ttctgagtc
accagttgca gagaatcag caagcaccta gcttaatagg acgtaaaatc tgtgtggggc
tagaacaata attaagacat gtttggcaat atttcagtta gttaaatacc tgtagcctaa
ctggaaaaat caggtctcat catgtagttt gaagatacta ttgtcagatt caggttttga
aattgtcaa ataaacagga taactgtaca ttttcaactt gttttgcca atgggaggta
gacacaataa aataatgcca tgggagtcac actgaaagca attttgagct tatctgtctt
atttatgctt tgagtgaatc atctgttgag tctaaatgcc tctacttggc ctatttgcca
gagaacatct taatcagacc tgcatagtga aatggttatt ttgagatcac cgtctgttag
ctaacctta taaactaggc tcagtaaaat aaagcactct tatttttga tctggcctat
tttgccctc attgtgtagc ctcaattaac acatgcatgg tcatgacacc cagaattcat
gatggtttgt tataacaacc tctgcatatt ccaggtcttg cagacagggtt gcctgacct
gcaatcctat ctagaatggg cccattcttg tcacatttga caaataggac tgcctacatt
tattattatg aaggtcgatt gttgttgaa gtgttttttc atgtcataga ttagcaattt
tcaataaatt atttttctc tgaaaatttt gtgtgtgatt gcacaataaa taatttttag
agaaacaaag gctctttctc agcacattga tgggcaacta gaattacagc agtttcaaac
tctaccatgg ataattgcaa caaacggaag ctacatgcca atgatagggtg caaagaatat
tggaacaaag tgccttaact tgagccatta ttgtgttcag agaaacaaaag aacagagaatc
aatatataa ttcaaaagact atctgcagct agtgtgttct ttctttacac acatatcac
acagacatca gaaaattctg ttgagagcag gttcatataa ttgttaagat ggcatattct
aaagcctgtg ctaccagtac taagagggga agactggcaa ttgtccaagc acttggggat
tatataaca attaactagg agatcaagag ataataatct ctcccaaat tttccaataa
taattgagac tttttctttg cttgtttgtg taattcaacc aaagaattt caatcccat
tcaaatgtc ctagggtctat cagaaattag ggaaggtagt cctgctttat aataggaaaa
tgtatttctg tataagattt cttgtcttc ataaaaatg ggtccattt aaaaattaat
cttccctgt taggtgtat tcagattctc taggaaatct ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNKQLV SPAAALLSNT TCQTENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQFRQ P	Homo sapiens
				ttcagatggt ttatttgctt tcagcagaga attatttca tacagtact taagagtgtt gatgtcttgt gaacagagat ataaggaacc attctccatc ctctcttata atgtctggta caatgcttct atgaatattt ccatgtattt tgactggga gaggcatgga gaagaaactc tcattcagg gctccaggat ccttctctt gaggcttcta aataaatggc agaattcttg ctgtattgcc atgatgtcac cctggccatg tgtactgact tgaggagatc ttgcaacatg gccatgtgca aggttttaag gagtgaaga gatgtgaca tatcttagga gggttatcta tgttatctga gtatatgttt gggtaaccaa attggtctta aaatgatgt taacccaaga agtagacatc aaaaattaaa aaaaaaaaaa aaaa	
299	4051	Proteinase-Activated Receptor 2	NM_005242	gpgccccccc tggggaggcg cgcagcagag gctccgattc ggggcagggt agagctgac A tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcggcg gattccccg gcgccccggc tgggggcttc caggaggatg cggagcccca gcgcggcgtg gctgctgggg gcgcccaccc tgctagcgc ctctctctcc tgcatggga ccatccaagg aaccaataga tctctaaaag gaagaagcct tattggttaag gttgatggca catcccacgt cactggaaaa ggagttacag ttgaacacagt cttttctgtg gatgagtttt ctgcatctgt cctcactgga aaactgacca cggctctcct tccaaattgtc tacacaaattg tgtttgtggt gggtttgcca agtaacggga tggccctgtg ggtcttctct ttcggaacta agaagaagca cctgctgtg attacatagg ccaatctggc cttggctgac ctctctctctg tcatctggtt cccctgaaag attgcctatc acatacatgc caacaactgg atttatggg aagctctttg taatgtgctt attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtggtg cagaggtatt ggtcatcgt gaaccccatg gggcactcca ggaagaaggc aaacattgcc attggcatct cctggcaat atggtgctgt attctgctgt tccatctccc ttgtatgtc gtgaagcaga ccatcttcat tctgcccctg aacatcaga cctgtcatga tgttttgctt gagcagctct tgggtggaga catgttcaat tacttctct ctctggccat tggggctctt ctgttcccag cctctctcac agcctctgct tatgtgctga tgatcagaat gctgcgatct tctgcccattg atgaaaactc agagaagaaa aggaagaggg ccatcaaaact cattgcatc gtcctggcca tgtacctgat ctgcttcaat cttagtaacc ttctgcttgt ggtgcattat tttctgatta agagccaggg ccagagccat gtctatgccc tgtacattgt agccctctgc ctctctaccc ttaacagctg catcgacccc ttgtctatt actttgtttc acatgatttc agggatcatg caaagaacgc tctcctttgc ggaagtgtcc gcaactgtaaa gcagatgcaa gtatccctca cctcaaaaga acactccagg aaatccagct ctactcttc aagttcaacc actgttaaga cctcctattg agttttccag gtcctcagat gggaattgca cagtaggatg tggaacctgt ttaattgtat gaggacgtgt ctgttatttc ctaatacaaa aggtctcacc acataccacc g	Homo sapiens
300	4051	Proteinase-Activated Receptor 2	NP_005233.2	GAAILLAASL SCSTGIQTN RSSKGRSLIG KVDGTSHTVG KGVTVEVFS P NMSPSAWLL GLTITVFLPI VYTFVVGVL PSNGMALWVF LFRTKKKHPA VIYMANLALA VDEFSASVLT	Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI LIIHHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cgggaggaga tcacctgctg cccgcagac cctgtccct tcctccggga A ccagcagcta gaggatgtcc aaacggagtt ggtgggtctg atccagaaag ccccaagag agatgctgaa actctcaggc tctgactcca gcaaaagcat gaatggcctt gaagtggctc ccccaggtct gatcaccaac ttctccctgg ccacggcaga gcaatgtggc caggagacgc cactggagaa catgctgttc gctcccttct accttctgga ttttatcctg gctttagtgg gcaataccct ggctctgtgg cttttcatcc gagaccacaa gtccgggacc cgggccaacg tgttccctgat gcactctggcc gtggccgact tgtcgtgctg gctggctcctg ccacccgcc tgggttacca cttctctggg aaccactggc catttgggga aatcgcatgc cgtctcaccc gcttccctct ctacctcaac atgtacgcca gcatctact cctcacctgc atcagcgccc accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg cacacctggc ctgtgcttcc ctgtgggtgg tgggtggctg ggcattggcc cgcgtgctgg tgagcccaca gacctgtag accaaccaca cgggtggtctg cctgcagctg taccgggaga aggctcccca ccctgcccctg gtgtccctgg cagtggcctt caccttcccg ttcatcacca cgggtcacctg ctacctgctg atcatccgca gctgcgggca gggcctgcgt gtggagaagc gcctcaagac caaggcagtg cgcattgatg ccattagtgt ggcattcttc ctggtctgct tctgtcccta ccactcaac cgtctcgtct acgtgctgca ctaccgagc catggggcct cctggccac ccagcgcatc ctggccctgg caaacgcgat cacctcctgc ctacccagcc tcaacggggc actcgacccc atcatgtatt tctcgtggc tgagaagttc cgcacgccc tgtgcaactt gctctgtggc aaagggtca agggcccgc cccagcttc gaagggaaaa ccaacgagag ctgctgagt gccaagttag agctgtgagc gggggcgccg gtccaggccc agcgagact gtttagact cagcagacc cagcagacc atctgcccct tcccagcca cctcccgagc aagcaacctg aaatctcagc agatgccac cattctcta gatcgccctag tctcaaccca taaaaaggaa gaactgacaa aggggatcca tgggcaaccc ctctgcaggg gcttgtgatg gctacaatgg ctcttagaca ctcaacgact tcattctgtg caggagagaga ggaggccgga agaacaacc ctgaacaatg gaggccttct tttcccgcta ggtcccagc ctccttcccg ctacagaatc gctcatcggc gaggtcagc agaaagacc tgaaggcagg ctgcaaatga cccagagagc ggacctggga gtccgtgtgg ggaagggtga ggaagtctcaa tactcctttg cagcgcaagg tactctgagt cccctctgta gtgctctgc cagacacaca ctgcctgagt tgaagagaca caggccacac atttcaggct gttgcccagc ggaagtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctcctt gctgtaaccc cagcacaag cctgcaaccc ccagagctct ttgacaggct cccaggcctc ccagtccctg acaagcatgt gcagtcacgg gagctcagct caggccaggg ctgggctgtg cacctgcctc ccactgaccc agaccactt cctccagaga ggcctctctc cgcctgagct atttcccttg ctagtgtgca gatatttccc taacatgtcc ttttttgtat ttgtttgtac ggaccataaa tataactgta gctttaagac taataaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWWAGS RKPPREMLKL SGSDSSQSMN GLEVAPPGLI TNFSLATAEQ CGQETPLENM P LFASFYLLDF ILALVGNLTA LWLFIRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF SGNHWPFGEI ACRLTGFLFY LNMYSIYFL TCISADRFLA IVHPVKSILK RRPLYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVFT FPFITTVTCY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	LSAKSEL	<p> LLIIRSLRQG LRVEKRLKTK AVRMIIVLA IFLVCFVPYH VNRSVYVLHY RSHGASCATQ RILALANRIT SOLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGPPP SFEGKTNES agagtcatacc agctggagcc ctgagtggct gagctcaggc cttcgcagca ttcttgggtg A ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggcctaact ttacgtgcc cttctccaat gcgacgggtg tggtacgcag ccccttcgag taccacagt actacctggc tgagccatgg cagttctcca tcttgccgcg ctacatgttt ctgctgctg tgctgggctt ccccatcaac ttcttcacgc tctacgtcac cgtccagcac aagaagctgc gcacgctct caactacatc ctgctcaacc tagccgtggc tgacctcttc atggtcttag gtggcttcac cagcaccttc tacacctctc tgcatggata cttcgtcttc gggcccacag gatgcaattt ggagggcttc ttggccaccc tggggcgtga aattggcctg tggctcctgg tggctcctggc catcgagcgg tacgtgggtg tctgtaagcc catgagcaac ttccgcttcg gggagaacca tggcatcatg ggcgttgctt tccctgggt catggcgtg gctgcgcg caccctact cgcgggctgg tccaggtaca tccccgagg cctgcagtg cctgttgaa tgcactacta cagctcaag cggaggtca acaacagtc tttgtcatc tacatgttcg tggctcactt caccatcccc atgattatca tcttttctg ctatgggcag ctgctctca ccgtcaagga ggcgctgccc cagcagcagg agtcagccac cacacagaag gcagagaag aggtcaccgc catgtctatc atcatgttca tgcgttctt gatctgctgg gtgcccctacg ccagcgtggc attctacatc ttcccccacc aggcctccaa cctcgtcatc tatatcatga ccatccagc gttcttggcc aagagcgccg ccactatcaa cctgtcatc tatatcatga tgaacaagca gtcccggaac tgcatgtca ccacctatg ctgcggaag aacctactgg gtgacgatga ggcctctgct accgtgtcca agacagagag gagccagggtg gccccggcct aagacctgcc taggactctg tggccgacta taggcgtctc ccatccctca cacttcccc cagccacagc catccaccca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt tttttttttt ttaagaaata attaatgagg ctctcactc acctgggaca gcttgagaaag ggacatccac caagacctac tgatctggag tcccacgttc ccaaggcca gcgggatgtg tgccccctct cctcccaact catctttcag gaacacgagg attcttgctt tctggaaaag tgtcccagct tagggataag tgtctagcac agaattgggc acacagtagg tgcttaataa atgctggatg gatgcaggaa ggaatggagg aatgaatggg aaggagaaac atatctatcc tctcagacc tcgcagcagc agaaactcat acttggttaa tgatatggag cagttgtttt tccctccctg ggcctcactt tcttctccta taaaatggaa atcccagatc cctggctcctg ccgacacgca gctactgaga agaccaaaa aggtgtgtgt gtgtctatgt gtgtgtttca gcacttttga aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatgggggtt caccacaact tggggcagggt ttttaaaaa tagctaggca tcaaggcccag accaggcctg ggggttgggc tgtaggcagg gacagtcaca ggaatgcagg atgcagtcac cagacctgaa aaaaacacac tggggggagg ggcggtgaa ggccaagtcc ccaatgaggg tgagattggg ctgggggtct cacccttagt gtggggcccc aggtccctg cctcccttc ccaatgtggc ctatggagag caggccctt ctctcagcct ctggaagcca cctgctctt ttgcttagca cctgggtccc agcatctaga gcatggagcc tctagaagcc atgctcacc cccacattt aattaacagc tgagtcctctg atgtcatcct </p>	<p> Homo sapiens </p>
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306	4254	Rhodopsin	NP_000530.1	MNGTEGPNFY VPFSNATGVV RSPFEYPOYY LAEPWQFSML AAYMFLILVL GPFINFLTLY P VTVQHKKLRT PLNYILLNLA VADLFVVLGG FTSTLYTSLH GYFVFGPTGC NLEGFFATLG GEIALWSLVV LAIERYVWVC KPMNSNFRFGE NHAIMGVAFT WYMALACAAP PLAGWSRYIP EGLQCSGID YYTLKPEVNN ESFVIYMEVV HFTIPMIIF FCYGLVFTV KEAAQQQES ATTQKAEKEV TRMVIIMVIA FLICWVPYAS VAFYIFTHQG SNFGPIEMTI PAFFAKSAAI YNPVIYIMN KQFRNCMLTT ICCGKNPLGD DEASATVSKT ETSQVAPA	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	agagacagct gggccactgg cagtgaggga gagtgaggat ggcagagacc agtgccctgc A ccactggctt cggggagctc gagtgctgg ctgtggggat ggtgctactg gtggaagctc tctccggctt cagcctcaat accctgacca tcttctctt ctgcaagacc cggagctgc ggactccctg ccactactg gtgctgagct tggctcttgc ggacagtggg atcagcctga atgcccctgt tgcagccaca tccagccttc tccggcgctg gccctacggc tccgacggct gccaggctca cggcttccag ggcttcttga cagccttggc cagcatctgc agcagtgcag ccatgcgatg gggcgcttat caccactact gcacccttag ccagctggcc tggaaactcag ccgtctctct ggtgctcttc gtgtggctgt ctctctgctt ctgggcagct ctgcccttc tgggttggg tcaactatgac tatgagccac tggggacatg ctgcaccctg gactactca agggggacag aaactcaacc agcttctct tccactatgt cttctcaac ttcgccatgc ccctcttcat cagatcaact tctacagtc tcatggagca gaaactgggg aagagtggcc atctccaggt aaacacact ctgccagcaa ggacgtgtgt gctcggctgg gggccctatg ccatcctgta tctatacgca gtcatacgag acgtgacttc catctcccc aaactgcaga tggtgccgc cctcattgcc aaaaatgtgc ccacgatcaa tgcctcaac tatgccctgg gcaatgagat ggtctgcagg ggaatctggc agtgctcttc accgagaaag agggagaagg accgaaccaa gtgagcctgc caccctggag tgagccccag gccaggaggc tgttccagg gtcctgcca gcagcctcg tggccaaagg cagacactca cccaccttc ccagtggccc cgtggatcct ggtcctaggc tggacacagg attcagaaag acaccaggct gcacagaaag agccagatgg acctgagtgt cggtcacagc cccctacact caagctgag aggcctcagg aaagtcattc ctttttaaaa ataataataa atgtaagggg gtacagtga gttttgttac atggatagat tgcctagtg tgaagtctgg gcttttagtg taaccatcac cctaataata tacgttgtac ccattaagt atttctcct cctcaccctc tcccacctg tcacctctt gagtctccaa tgtctatat tccacactcc atgtccacgt gtacacatta tttagctccc acttacaagt gagaacatgt ggtatttgac ttta	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	MAEFSALPTG FGELEVLAVG MVLLVEALSG LSLNTLTIFS FCKTPELRTP CHLLVLSLAL P ADSGISINAL VAATSSLLRR WPYGSDGCQA HGFQGFVTAL ASICSSAAIA WGRYHHYCTR	Homo sapiens

309	4321	Coupled Receptor RPE	NP_002980	<p>SQLAWSAVS LVLFWLSSA FWAALPLLGW GHYDYEPLGT CCTLDYSKGD RNFTSFLFTM SFFNFAMPLF ITITSYSLME QKLGKSGHLQ VNTTLPARTL LLGWGPYAIL YLYAVIADVT SISPKLQMPV ALIAKMWPTI NAINYALGNE MRCRGIWQCL SPQKREKDR K</p>	Homo sapiens
		Secretin Receptor		<p>acgaggcccg cgggagcccg ggaccctgcg cggggcgctg agtccccgag cggcgagag A gcacgggacg cgggagctcg ggggcccctc ggggaacgtg cgggacacat cggccccac ctgtcgccgc cgtgcgacga gctactactg cgggtgctgc tgcgctgcgc cggcactcg actggagccc tccccgact atgtgacgtg ctacaagtgc tgtgggaaga gcaagaccag tgcctgcagg aactctccag agagcagaca ggagacctgg gcacggagca gccagtcca ggttgtgagg ggtgtggga caacataaagc tgcctggccc cttctgtgccc gggccgggatg gtggaggtgg aatggccgag attctcccg atgctcacc gcagaaatgg ttcctgtgtc cgaaactgca cacaggatgg ctggtcagaa accttcccc ggctaatact ggcctgtggc gttaatgtga acgactcttc caacgagaag cggcactcct acctgctgaa gctgaaagt atgtacaccg tgggctacag ctctccctg gtcactgctc tggctgccc tggcatcctc tgtgtcttcc gagggtccca ctgcactgc aactacatcc acatgcacct gttcgtgtcc ttcatccttc gtgcccgtgc caacttcac aaggacgccc tgcctctctc ctcatgatg gtcacctact gcgactccga caggggcgcc tgcgaagctg tcatggtgct gtccagtag tgcatactgg ccaactactc ctggctgctg gtggaaggcc tctacctca cacactcctc gccatctcct tcttctctga aagaaagtac ctccaggat ttgtggcatt cggatggggt tctccagcca ttttctgtgc tttgtgggtc attgccagac accttctctgga agatgttggg tgtctggaca tcaatgccaa cgcattccatc tgggtgatac ttcgtgtgtcc tgtgactcct tccatctctga tcaattctcat ccttttccata aacattctaa gaactcctgat gagaaaact agaacccaaag aaacaagagg aatgaagtc agccattata agcgcctggc caggtccact ctcctgtga tccccctctt tggcatccac tacatcgctc tgcctctctc cccagaggac gctatggaga tccagctgtt ttttgaacta gccctgggtc cattccaggg actggtgtg gccgtcctct actgcttctc caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagtt cccactgcac cccgtggcct ccttcagcaa cagcaccaa gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcagggtcac ccacggacag agaccaagag aggtcctcg aggtcctggc actgctgtg gacagccagt ctccacgca gacacctgt gtcctcctc agctgaagat gccctcccc aggccttgga ctctccgaa gggatgtgag gcactgtggg gcagacaaag ggcctggat ttggttcgtt tgcctctctg ggaagagaag ttcagggggtc ccagaaaggg acagggaaat aaatggtgcc tgggatgaga ttc</p>	
310	4321	Secretin Receptor	NP_002971.1	<p>MRPHLSPPLQ QLLLPVLAC AAHSTGALPR LCDVLQVLWE EQDQLQELS REQTGDLGTE P QVPFGCEGMW DNISCWSSV PGRMVEVECP RFLRMLTSRN GSLFRNCTQD GWSETFPRPN LACGVNVDN SNEKRHSYLL KLKMYTVGY SSSLVMLLVA LGILCAFRRL HCTRNYIHM LFVFSILRAL SNFIKDAVLF SSDDVTYCDP HRAGCKLMV LFQYCIIMANY SWLLVEGLYL HTLLAISFFS ERKYLQGFVA FGWGSPIAFV ALMAIARHFL EDVGWDINA NASIWIIRG PVLSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARVSTLLIPL FGIHYIVFAF SPEDAMEIQL FFELALGSFQ GLVAVLYCF LNEVQLEVQ KKWQQWHIRE FPLHPVASFS NSTKASHLEQ SQGTCRTSII</p>	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgttcccca atggcaccgc ctctctctct ctctctctct tctctctctc ctagcccccag cccggggcagc A tgccggcgaag gcggcgccag caggggcccc ggggcccggc ggggcccggc ctgcccggcag catggaggag ccaggcgcaa atgcgtccca gaacgggacc ttgagcgagg gccaggcgag gccatccctg cgccatccctg atctctttca tctactccgt ggtgtgcctg ttggggctgt ttgggaactc tatggteatc tactgtatcc tgcgtatgc caagatgaag acggccacca acatctacat cctaaatctg gccattgctg atgagtgct catgctcagc gtcctctgc gcctctgc tcaagctgga cgcgggtaac cgccactggc ccttcggtgc gctgctctgc ctctctctgc ctagcgtgga cgcgggtaac atgttcacca gcattactg tctgactgtg ctccagctgg accgtactgt ggccgtggg catcccatca agcgccccc ctaccggcg cccaccgtgg ccaagtagt aaacctggc gtgtgggtgc tategtgct cgtcatctg cccatctgg tcttctctg caccggcc aacagcgacg gcacgtggc ttgcaacatg ctcatgccag agccgctca acgctggctg gtgggcttcg tgtgtacac atttctcatg ggcttctgc tgcctggg ggctatctgc ctgtgctacg tgctcatcat tgctaagatg cgcattggtg cctcaaggc cggctggcag cagcgcaagc gctcgagcg caagatcac ttatgggtga tgatgggtgt gatgggtgtt gtcatctgct gtagccttt ctacgtgtg cagctggtta acgtgtttgc tgagcaggac gacgccagc tgagtcagct gtcggtcatc ctggtctatg ccaacagctg cgccaaaccc atctctatg gctttctctc agacaactc aagcgtctt tccaacgcat cctatgcctc agctggatgg acaacggcg ggaggagcg gttgactatt acgccaacgc gctcaagagc cgtgctaca gtgtggaaga cttccaaact gagaacctgg agtccggcg cgtcttccgt aatggcacct gcacgtccc gatacagac cctctga ISFIYSVVCL VGLCGNMVI YVILRYAKMK TATNIYILNL AIADELLMLS VPFLVTSTLL P RHWPFALLC RLIVSVDVN MFTSIYCLTV LSVDRYAVR HPIKARYRR PTVAKVNLG VWVLSLIVL PIVFSTRAA NSDGTACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIIAKM RMVALKAGWQ QKRKSERKIT LYGFSLDNF VICWMPFYV QLVNVEAEQD DATVSQLSVI LGYANSCANP ILYGFSLDNF KRSFQRIILCL SWMDNAAEEP VDIYATALKS RAYSVEDFQP ENLESGGVER NGTCTSRIT L	Homo sapiens
312	4480	Somatostatin NP_001040.1 Receptor Type 1	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtggtgtc aaccaacac attcatctat ttgtgtgtct ctagacatg ctatgacctg acaagcaatg cagtcctcac ctcctctccg ctcctccgc tatgccaaga gatacatgg gttgtgtg aacacacttg tcatttatgt ctcctccgc ctcctccgc tgggtctgccc tttcttggct tacatcctca acctggccat ctcggccttt ggcaaggcca ttgtccgggt ggtcatgact atgcagggtg cctctgcca tccatcagtt caccagcatc ttctgcttga cagtcatgag catcgaccga gtggatggca tgggtccacc catcaagtcg gcaagtgga ggagacccc gagggccaag tacctggctg tgggtgtgtg gggagtctct ctgctggtca tcttgcccat catgatatat atgatcaca tgggtgtgtg gggagtgga agcagctgca ccatcaactg gccagggtga gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaactg gccagggtga tctggggctt ggtacacagg gttcatcatc tacatttca ttctggggtt cctgggtacc ctcaccatca tctgtctttg ctacctgttc attatcatca aggtgaagtc ccttggaatc cagatgggct cctctaagag gaagaagtct gacccgaatg tcaccgaat ggtgtccatc gtgggtgctg tcttcatctt ctgctggctt ccttctaca tattcaacgt ttcttccgtc	Homo sapiens
313	4481	Somatostatin NM_001050 Receptor Type 2		Homo sapiens

314	4481	Somatostatin NP_001041.1 Receptor Type 2	<p> tccatggcca tcagcccccac ccagccctt aaaggcatgt ttgactttgt ggtggtcctc acctatgcta acagctgtgc caacctatc ctatatgcct tcttgctga caactcaag aagagcttc agaattgctc ctgcttggtc aaggtgagcg gcacagatga tgggagcgcg agtgcacagta agcaggacaa atcccggtg aatgagacca cggagaccca gaggacccctc ctcaatggag acctccaaac cagtattctga MDMADEPLNG SHTWLSIPFD LSGSVVSTNT SNQTEPYDYD TSNAVLTFIY FVVCIIIGCG P NTLVIYVILR YAKMKTITNI YILNLAIAD E LFMGLPFLA NQVALVHPF GKAI CRVVMT sapiens VDGINQFTSI FCLTVMSIDR YLAVVHPKIS AKRRRPRTAK MITMAVWGS LLVILFIMIY AGLRNQWGR SSCTINWPGE SGAWYTGFI YTFILGFLVP LTIICLCYLF IIVKSSGI RVGSSKRKKS EKKVTRMVS I VVAVFICWL PFYIFNVSSV SMAISPTPAL KGMFDFVVVL TYANSCANPI LYAFLSDNFK KSFQNVLCIV KVSCTDDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI </p>	Homo sapiens
315	4482	Somatostatin NM_001051 Receptor Type 3	<p> atggacatgc ttcatccatc atcggtgtcc agacactcag aacctgagaa tgcctcctcg A gctggcccc cagatgccac cctgggcaac gtgtcggcg gcccaagccc ggcagggtcg sapiens gccgtcagtg gcgttctgat cccctggtc tacctgggtg tgtcgtgtgt ggcctgtgtg ggtaactcgc tggatcatc taactgtgc gctggcgcag gagctcttca tgtgtgggtt gccctcctg gtctacatcc tcaactggc gctggcgcag ctaactggcc ttgggtccc tcatgtgcc cctgtcatg gccgccaga agccctgtc gcatcaacca gtccaccagc atattctgc tgaactgcat ggcgtggac gcgtacctg ccgtggtaca tcccaccgc tcggcccgct ggcgcacagc tccggtggcc cgacaggtca ggcgggtgt gatgagacc tcagccgtg tgggtgtgct cgtgtgtggtc ttctcgggag tgcggcgcg catgagacc tgcacatgc agtggcccc ggcggcgcg gcctggcgag ccggttcat catctacag gccgcactg gcttcttcg gccgctgtg gtcatctgc tctgtacct gctcatctg gtgaagtg gctcagctg gcccggtg tgggcacct cgtgcagcg gcccgcgcg tccgaacgca ggttcacg catggtgtg gccgtgtgtg cgctctctgt gctctgtgt atgcccctt acgtgctcaa catcgtcaac gtgtgtgccc cactgcccga ggagcctgcc ttctttggc tctacttctt ggtgtgtg ctgccctatg ccaacagctg tgccaaaccc atcctttatg gcttctctc ctaccgctc aagcagggtt tccgcagggt cctgctgagg cctcccgcc gtgtgcgag ccaggagccc actgtggggc ccccgagaa gactgaggag gaggatgagg agggaggag tggggaggag agcaggagg ggggcaagg gaggagatg aacggccggg tcagccagat cacgagcct ggcaccagc ggcaggagc gccgcccagc agagtggcca gcaaggagca gcagctccta ccccaagag cttccactg ggagaagtc agcacgatgc gcatcagcta cctgtag MDMLHPSSVS TTSEPNASS AWPDATLGN VSAGPSPAGL AVSGVLIPLV YLVVCVVGLL P GNSLVIYVVL RHTASPSVTN VYILNLALAD ELFMGLPFL AAQNALSYWP FGSIMCRILM sapiens AVDGINQFTS IFCLTVMSVD RYLAVVHPTR SARWRTPVA RTVSAAVMVA SAVVLPVVV FSGVPRGMST CHMQWPEPAA AWRAGFIIT AALGFFGPLL VICLCYLLIV VKRSAGRRV WAPSCQRRR SERRVTRMV AVVALFVLCW MPFYVLNIV VVCPLEEPA FFGLYFLVVA LPYANSCANP ILYGFLSYRF KQFRRVLLR PSRRVRSQEP TVGPPKTEE EDEEEEDGE SREGKGKEM NGRVSQITQP GTSGQERPPS RVASKEQQLL PQEASTGEKS STMRI SYL </p>	Homo sapiens
316	4482	Somatostatin NP_001042.1 Receptor Type 3		Homo sapiens

317	4483	Somatostatin Receptor Type 4	NM_001052	atgagcgccc cctcgacgct gcccccggg ggcgaggaag ggctggggac ggctggggccc A tctgcagcca atgccagtag cgctccggcg gaggcggagg aggcgggtggc gggcgccggg gacgcgggg cgccggggcat ggctgctatc cagtgcattc acgcgctggt gtgcctgggtg gggctgggtg gtaacgccc gtcatcttc gtgacccctc gctacgcca gatgaagacg gctaccacca tctacctgtc caacctggcc gtgacgacg agctcttcac gctgagcgtg cctctcgtgg cctcgtcgcc cgccctggcg cactggccct tcggctccgt gctgtgcgcg gcggtgctca gcgtcgacgg cctcaacatg ttcaccagcg tcttctgtct caccgtgctc agcgtggacc gctacgtggc cgtggtggc cctctgcgc cgcgaccta cggcgggccc agcgtggcca agtcatcaa cctggggcgtg tggctggcat cctgttgggt cactctccc atgccatct tcgcagacac cagaccggt cgcgcgccg agccggtggc ctgcaacctg cagtggccac accggcctg gtcgccagtc ttgctggtc tacctgtc tgcctggcaa gatgcgcgc ctgctgccc tggctggcat tggcctgtc tacctgtc tgcctggcaa gatgcgcgc gtggccctgc gcgtggctg gcagcagcg agcgctcg agaagaaat caccaggtg gtgctgatgg tctgtgctc cttgtgctc tgcctggatg cttctacgt ggtgcagctg ctgaacctcg tctgacacg ccttgatgc accgtcaacc acgtgacct tctcctcagc tatgccaaca gctgcgcaa cctattctc tatggcttc tctcgacaa cttccggcga tccctccagc ggttctctg cctgcgtgc tgcctcctg aggtgctgg aggtgctgag gaggagcccc tggactacta tggcactgct ctaagagca aggtggtggc aggtgctgag tgccccccac taaatgcca gcaggagcc ctgcaaccag aaccgggccc caagcgcatc ccctcaccg gaccaccac cttctga	Homo sapiens
318	4483	Somatostatin Receptor Type 4	NP_001043.1	MSAPSTLPPG GEEGLTAMP SAANASSABA EAEEAVAGPG DARAAGMVAI QCIYALVCLV P GLVGNALVIF VILRYAKMKT ATTYYLNL VADELFMLSV PFVASSAALR HWPFGSVLCR AVLSVDGLNM FTSVFLTVL SVDRYVAVVH QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMRA IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMRA VALRAGWQQR RRSEKKITRL VLMVVVFLV CWMFFYVQL LNLVTSIDA TVNHVSLILS YANSCANPIL YGFLSDNERR SFQVLCRLC CLLEGAGGAE EEPLDYATA LKSKGGAGCM CPPLKCQQA LQPEGRKRI PLRTTTF	Homo sapiens
319	4484	Somatostatin Receptor Type 5	NM_001053	atggagcccc tgttccagc ctcacgccc agctggaacg cctcctcccc ggggggctgcc A tctggaggcg gtgacaacag gacgtggtg gggccggcg cctcggcagg gggcgggcg gtgctgggtg cgtgctgta cctgctggtg tctgctggcg ggtggggcg gaacacgctg gtcatctacg tggctgctg cctcgccaag atgaagaccg tcaccaacat ctacattctc aacctggcag tggccgacgt cctgtacatg ctggggctgc cttctctggc cagcagaac gcgcgtcct tctggccctt cgccccctc cgtgcccgc tggctatgac gctggacggc gtcaaccagt tcaccagtgt cttctgctg acagtcatga gcgtggaccg ctacctggca gtggtgcacc cgctgagctc ggcgcgctgg cgccgcccgt gtgtggccaa gctggcgagc gcgcggcct ggttctctgc tctgtgcatg tcgctgccc tccctgtgtt cgcggacgtg caggagggcg gtacctgcaa cgccagctgg cggagccccg tggggctgtg gggcgccgtc ttcatcatct acacggcgt gctgggcttc tctgcccgc tgcctgtcat ctgctgtgc tacctgtca tctgtgtgaa ggtgagggcg gcggcgctg cgtgggctg cgtgcggcg cgctcgagc ggaaggtgac gcgcatggtg ttggtggtg tgcctgtgtt tgcgggatgt tggctgccct tcttccagc caacatcgtc aacctggccc tggcgctgcc ccaggagccc	Homo sapiens

gctctcgcg gctctactt ctctggtggtc atctctctct agcccaacag ctgtgccaac
cccgctctct acggtctct ctctgacaac ttccgcaga gttccagaa ggtctgtgtc
cgtctgcaag caaggtggtc caaggacgt gacgccacgg agccgctcc agcaggatc
cggcagcagc agagggccac gccgcccgc caccgcccgc cagccaacgg gcttatgacg
accagcaagc ttgga

4484 320 Somatostatin NP_001044.1 MEPLFPASTP SWNASSPGAA SGGGDNRITLV GPAPSAGARA VLVPLVLLV CAAGLGNTL P
Receptor VIYVLRFAK MKTVTNIIYL NLAADVLYM IGLPFLATQN AASFWEFGPV LCRLVMTLDG
Type 5 VNQETSVFCL TVMSVDRYLA VVHPLSSARW RRPRAKLAS AAAWLSLCM SLPLLVEADV
QEGGTCNASW PEPVGLWGA VFIYTAVLGF FAPLLVICL YLLIVVKVRA AGVRVGCVR
RSEKVTIRMV LVVVLVFAGC WLPFFTIVNIV NLAVALPQEP ASAGLYFFVW ILSYANSCAN
PVLVGLSDN FRQSFQKVL C LRKSGAKDA DATEPRPDRI RQQQEATPPA HRAAANGLMQ
TSKL

321		aattcagagc caccgcgggc agcggggacg tgcattccaga agcgtttata ttctgagcgc A Homo sapiens
4552	Tachykinin Receptor 1	NM_001058 caatrcagct ttcaaaaca gtgctgccca taataaacct tcacacctcc tgctgtcttt

A	aattcagagc	caccgcgggc	aggcgggcag	tgatccaga	agcgtttata	tctgagcgc
	cagttcagct	ttcaaaaaga	gtgttgccca	taaaaagcct	tccacctctc	tgctcgtttt
	agaagagacc	tgagcccccag	gcgccagcca	caggactctg	ctgcagaggg	gggttggtga
	cagatagtag	gctttacgcc	tagcttcgaa	atggataacg	tctctccggt	ggactcagac
	ctctcccaca	acatctccac	taacactcg	gaaccaatc	agttctgtga	acagcctcgg
	caaatattgc	tttgggatcat	tgactacacg	gtcaatttgg	tgacctctgt	ggtgggcaac
	gtggtagtag	tgtgggacat	cttagcccac	aaaagaatga	ggacagtga	gaactatatt
	ctggtgaacc	tggccttcgc	ggaggctccc	atggctgcac	tcaatcacgt	ggtgaacttc
	acctatgctg	ttcacaaacga	atggtactac	ggcctgtttc	actgcaagt	ccacaacttc
	tttcccacgc	cgcgtgtctt	cgccagtcac	tactccatga	cggctgtggc	ctttgatagg
	tacatggcca	ttcatacatc	cctccagccc	cggctgttcag	ccacagccac	caaagtggtc
	atctgtgtca	tgtgggtcct	ggctcgtctc	ctggccttcc	ccaggggcta	ctaactcaac
	acagagacca	tgcccagcac	agtcctgtgc	atgctcgaat	ggccagagca	tccgaacaa
	atttatgaga	aagtgtaacca	catctgtgtg	actgtgctga	tctacttctc	ccccctgctg
	gtgatggct	atgcatacac	cgtagtggga	atcacactat	gggccagtgga	gatccccggg
	gactcctctg	accgctacca	cgaacaaatc	tctgccaaag	gcaaggtggc	caaaatgatg
	attgtcgtgg	tgtgcacctt	cgcacatctc	tggctgcctt	tccacatctt	cttctctctg
	ccctacatca	accagatctc	ctacctgaag	aagtttatcc	agcaggtcta	cctggcccatc
	atgtggctgg	ccatgagctc	caccatgttc	aaccccatca	tctactgtctg	cctccaatgac
	aggttcctgc	tgggctttcaa	gcataccttc	cggctgtgcc	cttctctcag	cgcggcgac
	tatgaggggc	tggaaatgaa	atccaccccg	tatctccaga	cccaggggcag	tgtgtacaaa
	gtcagccgcc	tggagaccac	catctccaca	gtggtggggg	cccacggagg	ggagccagag
	gacggcccca	agggcacacc	ctcgtccctg	gacctgacct	ccaactgtct	ttcacgaagt
	gactccaaga	ccatgacaga	gagcttcagc	ttctctccca	atgtgctctc	ctaggccaca
	gggcctttgg	caggtgcagc	ccccactgcc	tttgactctg	ctccctctcat	gcactggaaat
	ttcccttcac	tggaaaccatc	agaaaacacc	ttcaactggg	acttgcaaaa	agggctcagta
	tgggtttagg	aaaacattcc	atccttgagt	caaaaaatct	caattctctc	ctatctttgc
	caccctcatg	ctgtgtgact	caaaccaaat	cactgaacct	tgctgagcct	gtaaaaataa
	gggtcggacc	agcttttctc	caagagccca	atgcattcca	tttctgggaag	tgactttggc

322	4552	Tachykinin Receptor 1	NP_001049.1	tgcatgcgag tgctcatttc aggatg	QIVLWAAAYT VIVVTSVVG N VVVMWIIAH P	Homo sapiens
				MDNVLPVDS LSNISTNTS EPNQFQPAW	GLFYCKFHN FPIAAVFASI	
				KRMRTVTNYF LVNLAFAEAS MAEFNTVNE	TYAVHNEWY IAFPPQGYST TETMPSRVVC	
				YSMTAVAFDR YMAIHPLOP RLSATATKV	ICVIWLLAL ITLWASEIPG DSSDRYHEQV	
				MIWPEHPNK IYKVVHICV TVLIYFLPL	VIGYAYTVG KFIQQVYLAI MWLAMSSTMY	
				SAKRKVVM IVVCTFAIC WLFPHIFLL	YYNPDLYLK YLQTQGSVYK VSRLETIST	
				NPIIYCLND RFLGFKHAF RCCPFISAGD	YEGLEMKSTR FSSNVLS	
				VVGAHEEPE DGPKATPSSL DLTSNCSSRS	DSKTMTEFS	
323	4687	Thrombin Receptor	NM_001992	ggcggggggc gcacagagcc agaggggctt	gctgagggac cgcggggagg A	Homo sapiens
				ggcgccgag cggctccagc gcagagactc	tcactgcagc cgggagccc ctctctcgct	
				ccgcccgcg caccgcgcc cccagtcctg	ccccgcccc ctaaccgccc cagacacagc	
				gctcgccgag gctcgcttg accctgatct	taccctggg caccctgccc tctgcccctg	
				gcgaagaccg gctccccgac ccgcagaagt	caggagagag ggtgaagcgg agcagcccga	
				ggcgggcgag cctccggag cagcgcggc	cagagccccg gacaatgggg ccgcggcgcc	
				tgctgctggg ggcgcctgc ttcagctctg	gcgccctgct gttgctctgccc cgcacccggg	
				ccgcaggcc agaatacaaaa gcaacaaatg	ccaccttaga tccccggtca tttcttctca	
				ggaaccccaa tgataaatat gaaccatttt	gggaggatga ggagaaaaat gaaagtgggt	
				taactgaata cagattagtc tccatcaata	aaagcagtcct tctcaaaaa caacttctctg	
				cattcatctc agaagatgcc tccggatat	tgaccagctc ctggctgaca ctctttgtcc	
				catctgtgta caccggagt tttgtagtca	gcctccact aaacatcatg gccatcgttg	
				tggtcatcct gaaaatgaag gtcaagaagc	cggcggtggt gtacatgctg caccctggcca	
				cggcagatgt gctgtttgtg tctgtgctc	cttttaagat cagctattac ttttccggca	
				gtgattggca gtttgggtct gaattgtgtc	gcttctgtcag tgacgacattt tactgtaaca	
				tgtagccctc tatcttgctc atgacagtca	taagcattga ccggtttctg gctgtgggtg	
				atcccatgca gtccctctcc tggcgtagtc	tggaagggc ttccttctact tgtctggcca	
				tctgggcttt ggccatcgca ggggtagtc	ctctcgtcct caagagagcaa accatccagg	
				tgcccggtct caacatcact acctgtcatg	atgtgtcaca tgaacccctg ctgaaaggct	
				actatgccta ctacttctca gccttctctg	ctgtcttctt ttttgtgccg ctgacattt	
				ccacggctcg ttatgtgtct atcattecat	gtcttagctc ttcgcagtt gccaaaccgca	
				gcaagaagtc ccgggctttg ttcctgtcag	ctgtgtttt ctgcatcttc atcatttgct	
				tggaccac aaacgtctc ctgattgcgc	attactcatt ctttctcac acttccacca	
				cagaggctgc ctactttgccc tacctctct	gtgtctgtgt cagcagcata agctcgtgca	
				tcgacccctc aatttactat tacgcttct	ctgagtgcca gaggtacgtc tacagtatct	
				tatgtctgcaa agaaagtctc gatcccagca	gttataacag cagtgggcag ttgatggcaa	
				gtaaaaatgga tacctgtctc agtaacctga	ataacagcat atacaaaaag ctgttaactt	
				aggaataaggg actgctggga ggttaaaaa	aaaagtatat aaaaagtgaat aacctgagga	
				ttctattagt cccaccccaa actttattga	ttcacctcct aaacaacag atgtacgact	
				tgcatacctg ctttttatgg gagctgtcaa	gcatgtattt ttgtcaatta ccagaaagat	
				aacaggacga gatgacggtg ttattccaag	ggaatatgac caatgtctaca gtaataaatg	
				aatgtcactt ctggatatag ctagggtgaca	tatacatact tacatgtgtg tatatgtaga	

324	4687	Thrombin Receptor	NP_001983.1	<p> tgtatgcaca cacatatatt atttgcaagt cagtatagaa taggcacttt aaaaactctt ttccccgcac ccagcaatt atgaaaaataa ttctctgattc cctgatttaa tatgcaagt ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagttggg cttgtaccac ttttgcaat aagtgtatt tgaattgtt tgacggcaag gtttaagtta ttaagaggta agacttagta ctatctgtgc tagaagttc tagtgtttc aattttaaac atatccaagt ttgaattcct aaaattatgg aaacagatga aagcctctg ttttgatag gtagtatatt tttacatttt acacactgt cacataagcc aaaactgagc ataagtcctc tagtgaatgt aggtggctt tcagagtagg ctattcctga gagctgcatg tgtccgcccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaacctcct gctgagcctc acagcagtga gactggggcc actacattg ctccatcctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaaaagcaga atgtgatc ctaggaggta atgaccatga aagacttctc taccatctt aaaaacaacg aaagaaggca tggacttctg gatgccatc cactgggtgt aaacacatct agtagttgtt ctgaaatgtc agttctgata tggaaagcacc cattatgccc tgtggccact ccaataggtg ctgagtgtag agagtggaaat aagacagaga cctgcccctc agagcaaaagt agatcatgca tagagtgtag tgtatgtga ataaatatgt ttcacacaaa caaggcctgt cagctaaaga agtttgaaca ttgggtttac tatttctgt ggttataact taatgaaaac aatgcagtac aggacatata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaatgtt ttgctcaata gattgctcaa atcaggtttt cttttaagaa tcaatcatgt cagctgctt agaaataaca gaagaaaaata gaattgacat agacttttaa agactcctaa gtatcaagta cattactta agacttaatg agacttttaa agactttttt aacctcctaa gtatcaagta tagaaaaatc tcatggaatt caaaaagtaa ttgggaatt aggtgaaaac atatctcta tcttacgaaa aaatggtagc attttaaaaa aatatagaaa ttgcaaggca aatgtttatt taaaagagca gccagggcgc ggtggctcac gcctgtaac ccagcacttt gggaggctga ggcgggtgga tcacgaggtc agagatcga gacctcctg gctaacacgg tgaaccctg ctctactaaa aatgcaaaaa aaattagccg ggcgtggtg tgaaccactg tagtcccagc tactcgggag gctgagggcag gagactggcg tgaaccagg aggcggacct tgtagtgagc cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc MGPRRL1LVA ACFSLCGPLL SARTRARRPE SKATNATLDP RSFLRNPNP KYEPFWEDEE P KNESGLTEYR LVSINKSPPL QKQLPAFISE DASGYLTSSW LTLEVPSTVY GFVVSPLPLN INAIWVFIK MKVKREPAVY MLHLATADVL FVSVLPFKIS YFSGSDWQF GSELCRFVTA AFYCNMYASI LMTVISIDR FLAVVPMQS LSWRTILGRAS FTCLAIWALA IAGVPLVLK EQTIQVPLN ITTCHDVLE TLLEGYYAYY FSAFSAVFFF VPLIISTVCY VSIIRCLSSS AVANRSKKS ALFLSAVFC IFIICFGPTN VLLIAHYSFL SHTSTEAAY FAYLLCVCVS SISSCIDPLI YYYASSECR YVYSILCKE SSDPSSYNSS GQLMASKMDT CSSNLNNSIY KKLLT </p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p> tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagct A tcagccacga gcagtggtgg ccttagaata ccagtggtc accatcttac ttgtactcat tatttggtgc ctgggcatg taggcaacat catggtagtc ctggtgtgca tgaagaacaa gcacatgagg acccccaca actgctacct ggtgagcctg gcagtagctg atctcatggt cttggtggcc gcaggcctcc ccaacataac agacagtatc tacggttctt gggtctatgg </p>	Homo sapiens

244/448

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	<p>ctatgttgga tgacctctgca ttacttaacct ccagttatttg ggaattaatg catcctcttg</p> <p>ttcaataaca gacctttacca ttgagaggta catagcaatc tgtcacccca tcaagagccca</p> <p>gtttctctgc acatttttcca gagcccaaaa gattatcatc ttgtgtctggg ctttccatc</p> <p>tccttactgt atgctctggg ttctcttgct ggtctcaat attagcacct acaagatgc</p> <p>tattgtgata tctgtgggt acaagatctc caggaattac tactcaccta ttacttaaat</p> <p>ggactttgggt gtctttttatg ttgtgccaat gactctgctt accgtctctt atggattcaat</p> <p>agctagaatc cttttcttaa atccccatcc ttcatgctct aaagaaaaact ctaagacatg</p> <p>gaaaaatgat tcaaccatc agaacacaaa tctgaatgta aatacctcta atagatgttt</p> <p>caacagcaca gtatcttcaa ggaagcaggt caccaagatg ctggcagtggt ttgtaattct</p> <p>gtttgacctt ttatggatgc cctacaggac tctagtgggt gtcaactcat ttctctccag</p> <p>tcctttccaa gaaaattgggt ttgtgctct ttgcagaatt tgcatttatt tcaacagtg</p> <p>catcaaccg gtgatttaca atctcatgtc ccagaaattc cgtgcagcct tcagaaaagct</p> <p>ctgcaactgc aagcagaagc caacagagaa acctgctaac tacagtgtgg ccctaaatta</p> <p>cagctcatc aaggagtcag acctttcag cacagagctt gatgatata ctgtcactga</p> <p>cacttaacctg tctgccacaa agtgtgttt ttgatgacac ttgttggtt ctgaggtatc</p> <p>ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaagaaa ttgagaatct</p> <p>gtgcagtcac caacaaaagg gagaacatgg ccaatagta tatgtgaaga cagagcagat</p> <p>cagctcttgg caatgctcta acaaaccc</p>	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	<p>atcggagct gctcctctgc caatgattcc agcgcctgac agccaggacc ccaggcagca A</p> <p>gcgagtgaca ggaagtcttg accggcgcg cgctagcagc tctgccgggc cgcggcggtg</p> <p>atcgatgggg agcggtctgga gcggaccag cgagtggagg cgacacagcc ggacgcccag</p> <p>gcggcgggcg ggagaccgc accagcgag cgggccctcg gcgggacgtg acgcagcgcc</p> <p>cgggcgcgcg gttgatatt tgacaaattg atctaaaatg gctgggtttt tatctgaata</p> <p>actactgat gccatccag aaagtccgca caaggtgtat ttgatatagt gtttgcaaca</p> <p>aattcgaccc agtgatcaa aatgatttc aactcttcta ctgaagatgg tattaaaaa</p> <p>atcaagatg attgtcccaa agctggaag cataattaca tatttgctat gattcctact</p> <p>ttatacagta tcatcttgg ggtgggaata ttgggaaca gcttggtggt gatagtcatt</p> <p>tactttata tgaagctgaa gactgtggc agtgttttc ttgtgaattt agcactggct</p> <p>gacttatgct ttttactgac ttggccacta tgggtgtctt acacagctat ggaataccgc</p> <p>tgcccttttg gcaattacct atgtaagatt gcttcagcca gcgtcagttt caacctgtac</p> <p>gctagtgtgt ttctactcac gtgtctcagc atgtatcgat acctggctat tgttaccaca</p> <p>atgaagtccc gccttcgac cacaatgctt gtgagcaaaag tcacctgcat catcatttgg</p> <p>ctgtggcag gcttggccag ttggccagct ataattccatc gaaatgtatt ttctattgag</p> <p>aacacaata ttacagtttg tgctttccat tatgagtgccc aaaattcaac ccttccgata</p>	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p> gggtgggccc tgacaaaaaa tatactgggt ttctgtttc cttttctgat cattctaca agttatactc ttatttggaa ggcctaaag aggccttatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc tttttctttt cttttcctgg attccccacc aaatattcac tttttctggat gtattgattc aactaggcat catacgtgac tgtagaattg cagatattgt ggacacggcc atgcctatca ccatgtgtat agcttatttt aacaattgcc tgaatcctct tttttatggc ttctgggga aaaaatttaa agatatattt ctccagcttc taaatatat tccccaaaa gccaaatccc actcaaacct ttcaacaaaa atgagcacgc ttctctaccg cccctcagat aatgtaagct catccaccaa gaagcctgca ccatgttttg aggttgagt acatgttcca aacctgtcca taaagtaatt ttgtgaaaga aggagcaaga gaacattcct ctgcagcact tcaactacaa atgagcatta gctacttttc agaattgaag gaaaaaatgc attatgtgga ctgaaccgac ttttctaaaag ctctgaacaa aagcttttct ttcttttgc aacaagacaa agcaaaagcca cttttgcat tagacagatg acggctgctc gaagacaat gtcagaaact cgatgaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa ggtattttaga atatatataa tcgttagagg agcaacagga ttgagaggtt ccagattgtt ctgtccagtt tccaaaggcc agtaaaagtt tcgtgccggt ttccagctat tagcaactgt gctacacttg cacctggtac tgcacatttt gtacaaagat atgctaaagca gtagtcgtca agttgcagat ctttttgtga aattcaacct gtgtcttata ggtttacact gccaaaaaa tgcccgtaag atgctttatt tgtataatgg tgttactaaa gtacatatata aaagttaaac tacttgtaaa ggtgctgcac tgggtcccaag tagtagtgct ctctagtagt attagtttga tttaatatct gagagtgta tatagtttgt ggtaaaaaga ttatatatca taaagtagtc cttctgtgtt aaaaaagta tatattctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaacttgcca aagtttatatt tacttataaa taaaaaatt ttattgc </p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p> MILNSSTEDG IKRIQDDCPK AGRHNYIFVM IPTLYSIIFV VGIFGNSLW IVIYFYMKLK P TVASVFLNL ALADLCFLLT LPLWAVYTAM EYRWPFNGYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPMKSLRR TMLVAKVTCI IWLWLAGLAS LPAIHRNVF FIENITVVC AFHYESQNST LPIGLTKN ILGFLFPFLI ILTSYTLWK ALKKAYEIQK NKPRNDDIFK IIMAIVLFFF FSWIPHQIFT FLDVLIQLGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGLGKKFK RYFLQLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtccacgc gctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaggagt gtgttaggc actaagcaag ctgatttatg ataactgctt taaacttcaa caaccaaaag cataagaact aggagctgct gacatttcaa tatgaaggcg aactccaccc ttgccactac tagcaaaaac attaccagcg gtcttacct cgggcttggtg aacatctctg gcaacaaatga gctaccttg aactgttcac agaaaccatc agataagcat ttagatgcaa ttcttattct ttactacatt atatttgtaa ttggatttct ggtcaaatatt gtcgtggtta cactgttttg ttgtcaaaaag ggtccataaa aggtttctag catatacatc ttcaacctcg ctgtggctga ttactcctt ttggctactc ttctctatg ggcaacctat tattcttata gatatgactg gctcttggga cctgtgagt gcaaaagttt tggttctttt cttaccctga acatgtttgc aagcattttt ttatcacct gcatgagtgt ttagaggtac caatctgtca tctaccctt tctgtctcaa agaagaatc cctggcaagc atcttatata gtcccccttg </p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p> t t t g t g t a t g g c c t g t t t g t c t c a t t g c c a a c a t t t t a t t t t c g a g a c g t c a g a a c c a t t g a a t a c t t a g g a g t g a a t g c t t g c a t t a t g g c t t t c c c a c c t g a g a a a t a t g c c c a a t g g t c a g c t g g g a t t g c c t t a a t g a a a a a t a t c c t t g g t t t t a t t a t c c c t t t a a t a t t c a t a g c a a c a t g c t a t t t t g g a a t t a g a a a a c a c t t a c t g a a g a c g a a t a g c t a t g g g a a g a a c a g g a t a a c c c g t g a c c a a g t c c t g a a g a g t c c g a g c t g c t g t t g t t c t g g c c t t c a t a t t t g g t g c c t t c c c t t c c a t t c c t g a c c t g t c t g g a t g c t b g g c c t g g a t g g g t g t c a t t a a t a g c t g c g a a g t t a t a g c a g t c a t t g a c c t g g c a c t t c c t t t t g c c a t c c t c t g g g a t t c a c c a a c a g c t g c g t t a a t c c g t t t c t g t a t t g t t t t g t t g g a a a c c g g t t c c a a c a g a a g c t c c g c a g t g t g t t t a g g g t t c c a a t t a c t g g c t c c a a g g g a a a a g a g a g a g t a t g t c t t g c c g g a a a g c a g t t c t c t t a g a g a a a t g g a g a c c t t t g t g t c t t a a a c g g g a g a g c a a a a t g c a t g t a a t c a a c a t g g c t a c t t g c t t t g a g g c t c a c c a g a a t t a t t t t t a a g t g g t t t t a a t a a a a t a a t a a a a t t t c c c c t a a t c t t t t c t g a a t c t t c t g a a a c c a a a t g t a a c t a t g t t t a t c g t c c a g t g a c t t t c a g g a a t g c c c a t t g t t t t c t g a t a t g t t t g t a c a a g a t t t c a t t g g t g a g a c a t a t t t a c a a c c t a g a a g t a a c t g g t g a t a t a t c t c a a a t t g t a a t t a a t a a t a g a t t g t g a a t a a t g a t t t g g g a a t t c a g a t t t c t c t t t g a a a c a t g c t t g t g t t t c t a g t g g g g t t t t a t a t c c a t t t t t a t c a g g a t t t c c t c t t g a a c c a g a a c c a g t c t t t c a a c t c a t t g c a t c a t t t a c a a g a a a c a t t g t a a g a g a g a t g a g c a c t t c t a a g t t g a g t a t a t t a t a a t a g a t t a g t a c t g g a t t a t t c a g g c t t t a g g c a t a t g c t t c t t t a a a a a c g c t a t a a a t t a t a t t c c t c t t g c a t t t c a c t t g a g t g g a g g t t t a t a g t t a a t c t a t a a c t a c a t a t t g a a t a g g g c t a g g a a t a t a g a t t a a a t c a t a c t c c t a t g c t t t a g c t t a t t t t t a c a g t t a t a t a a g a c a a g a t g t a c t a t a a c a t a g a a t t g c a a t c t a t a a t a t t t g t g t g t t c a c t a a a c t c t g a a t a a g c a c t t t t t a a a a a c t t t c t a c t c a t t t t a a t g a t t g t t t a a a g g t t t c t a t t t t c t c t g a t a c t t t t t t g a a a t c a g t a a a c a c t g t g t a t g t t g t a a a a t g t a a a g g t c a c t t t t c a c a t c c t t g a c t t t t t a g a t g t g c t g c t t t g a t a t a t a g g a c a t t g a t t g t a t t t t a t t a t t a a t g c t t t g g t t c t g g g t t g t t c c t a a a a t a t c t g g g t g g c t t a a a a a a a a c t c t t t a a c t t g t a a t a a a c c c t t a a c t g g c a t a g g a a a t g g t a t c c a g a a t g g a a t t t t g c t a c a t g g g g t c t g g g t g g g g g c a a a g a g a c c c a g t c a a t t a c a t g t t t g t a c c a g a a a a g g a a c c t g t c a g g g c a g t a c a a t g t g a c t t t g a a a a t a t a t a c c g t g g g g g t a g t t t t a c c c t a t a t c t a t a a a c a c t g t t t g t t c c a g a a t c t g t a t g a t t c t a t g g a g c t a t t t t a a a c c a a t t g c a g g t c t a g a M K G N S T L A T T S K N I T S G L H F G L V N I S G N N E S T L N C S Q K P S D K H L D A I P I L Y Y I I F V I G F L P V N I V V T L F C C Q K G P K K V S S I Y I F N L A V A D L L L A T L P L W A T Y Y S Y R Y D W L F G P V M C K V F G S F L T L N M F A S I F F I T C M S V D R Y Q S V I Y P F L S Q R N P W Q A S Y I V P L V W C M A C L S S L P T F Y F R D V R T I E Y L G V N A C I N A F P P E K Y A Q W S A G I A L M K N I L G F I I P L I F I A T C Y F G I R K H L L K T N S Y G K N R I T R D Q V L K M A A A V L A F I I W C L P F H V L T F L D A L A W M G V I N S C E V I A V I D L A L P F A I L L G F T N S C V N P F L Y C F V G N R F Q Q K L R S V F R V P I T W L Q G K R E S M S C R K S S S L R E M E T F V S a t g g c c a g t a c a g a g t c c t c c c t g t t g a g a t c c c t a g g c c t c a g c c c a g g t c c t g g c a g c A a g t g a g g t g g a g c t g g a c t g t t g g t t g a t g a g a t t t c a a g t t c a t c c t g c t g c c t g t g a g c t a t g c a g t t g t c t t t g t g c t g g g c t t g g g c c t a a c g c c c c a a c c c t a t g g c t c t c a t c t t c c g c c t c c g a c c c t g g g a t g c a a c g g c c a c c t a c a t g t t c c a c c t g g c a t t g t c a </p>	Homo sapiens
331	5072	Pyrimidinergic ic Receptor P2Y4	NM_002565	<p> a t g g c c a g t a c a g a g t c c t c c c t g t t g a g a t c c c t a g g c c t c a g c c c a g g t c c t g g c a g c A a g t g a g g t g g a g c t g g a c t g t t g g t t g a t g a g a t t t c a a g t t c a t c c t g c t g c c t g t g a g c t a t g c a g t t g t c t t t g t g c t g g g c t t g g g c c t a a c g c c c c a a c c c t a t g g c t c t c a t c t t c c g c c t c c g a c c c t g g g a t g c a a c g g c c a c c t a c a t g t t c c a c c t g g c a t t g t c a </p>	Homo sapiens

332	5072	Pyrimidinerg NP_002556.1 ic Receptor P2Y4	gacacctgtg atgtgtgtgc gctgcccacc ctcatctact attatgcagc ccacaaccac tggccctttg gcaatgagat ctgcaagttc gtccgctttc ttttctiattg gaacctctac tgcaagtgtc ttttctctac ctgcatcagc gtgcaccgt acctgggcat ctgccaccca cttcggggcac tacgtctggg cgcgcctcgc ctgcagggc ttctctgctt ggcagtttgg ttggtcgtag cgggctgctt cgtgcccac cgttctcttg tcacaaccag caacaaggg accaccgtcc tbtgccatga caccactcgg ctggaagagt ttgaccacta tbtgcacttc agctcggcgg tcatggggct gctctttggc gtgcctgccc tggtcactct tgtttgctat ggactcatgg ctgctgctct gtatcagccc ttgccaggct ctgcacagtc gtcttctcgc ctccgctctc tccgacccat agctgtggtg ctgactgtct ttgctgtctg cttegtgctt ttccacatca cccgacccat ttactacctg gccaggctgt tggaaagtga ctgcagagta ctgaacattg tcaacgtggg ctataaagtg actcggcccc tggccagtcg caacagctgc ctggatcctg tgcctactt gctcactggg gacaaatgc gactcagct ccgtcagctc tgtgtggtg gcaagcccca gccccgcag gctgcctctt cctggcact agtgcctg cctgaggata gcagctgcag gtggcgggc acccccagg acagtagctg ctctactctt aggcagata gattgtaa MASTESSLLR SLGLSPGPGS SEVELDCWFD EDFKILLPV SYAVVFLGL GLNAPTILWLF P IFRLRPWDAT ATYMFHIALS DTLYVLSLPT LIYYAAHNH WPFTEICKF VRFLFYWNLY CSVLFLTCIS VHYLGICHP LRALRWGRPR LAGLLCLAVW LVVAGCLVFN LFFVTTSNKG TTVLCHDTRR PEEFDHYVHF SSAMGLLEF VPCLVTLVY GLMARLYQP LPGSAQSSSR LRLSLTIADV LTVFAVCFVP FHITRTIYL ARLLLEADCRV LNIWVVKV TRPLASANSC LDPVLYLLTG DKYRRLRLQL CGGKPKPRT AASSLALVSL PEDSSCRWAA TPQDSSCSTP RADRL	Homo sapiens
333	5117	Vasopressin NM_000706 V1A Receptor	taattgcttg aagattttt tccagacagg tggctgtgaa accttttacc tattacctc A catccctgaa ccatttcaat ctctgcctc ctggatatct tggagaaaaa gaaccaaac aacacagctt tcagttttta gagcatttcc cccatacaga acattgtctt acttgatctt cccgatgacc tcaacaacag gaaaggcagg tcttttcat tccatttata agacgcacag accagagatt atctagccac aggaagcagg actccagatt tcaagtccag catctcaacg tgacaacctt ggtaaactctg catgaacgga ctggatagta aagtggaaatt attactgaga actgcaatga ataaaactct ttgcattttt tgcctacgtt tcacagaggg tgatatattt ctgagggcaat taaatttata ccacggccac aatactgaaa cgttctgacc acaaaagtca tgctcctgca tctacacagc agataactgc agaaacggct tcttttcttc ctgtaaaaat tgctgaaaaa cagctcccc ttgctgtccg tcgaggcata tcttccaaa cgttaaaaa gagctgaggg agatcgcatt tctgcctccc tcccgcctg cagaggggct ccagctgttc agagtaacgg attactaggt aggtggttgt tccccctct tcccagggct tcttctctt ctttgagatt gcctcttctt tactcctgag cacaggagcc gggcgggttt tctgtccctt gccctggaca gcactgcctg gatggccgct gtccggcagc tgctctttgt ccacccaaaa agatgtcccc acgactcagt agtaaccaga cgggtccccc ggaccactgc ggccaaattt ccgcatccc cgctgtggga atcaggcttt tcccgcagaa aaccacagga atctagagaa aactccttaa gtcccctagc tccatagaga aaacaggag acactcccc caaacccgc tgtgaataca ggcacagcag ccactggggc ctgaagtgta tgagtgcgtt ctccccgtc caacatagg gtaataaata gcatgcatca aagacgttac taggaagaga tagctcttta	Homo sapiens

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gtttctagt gcattttcat attgtacca aaactagac attatttgt atggaatatt
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334	5117	Vasopressin V1A Receptor	NP_000697.1	PSGNSSPWPP TFAVAVLGN SVLLALHRT DWLCRVVKHL QVFGMFASAY LSTPQYFVFS MIEVNNVTKA YNIWCNVRGK TASRQSKGAE IVCWAFFFI QMWSVWDPM QSFPCCNMK EKENKEDTDS	LATGAGNTSR RKTSRMHLFI MLVVMADRY RDCWATEIQP QAGVAFQKGF VWTESENPTI MSRRQTFSYN	EAEALGEGNG RHLSLADLAV IAVCHPLKTL WGSRAYVTWM LLAPCVSSVK TITALLGSLN NRSPTNSTGM	PPRDVRNEEL AFFQVLPQMC QQPARRSRIM TGGIFVAPVV SISRAKIRT SCNPNWIYMF WKDSPKSSKS	AKLEIAVLAV WDITYRFRGP IAAAWVLSFV ILGTCYGFIC KMTFVIVTAY FSGHLIQDCV IKFIPVST	Homo sapiens
335	5118	Vasopressin V1B Receptor	NM_000707	ctccagccgc tgcctaccag gcgacaccga ctgctccgga tccagaaaag tttggagaaa gccttcttct tctccacaga ttcccatctc tctgaccccc ccttcggaat ctcatcctcc atttgggaag ctctccctcg actccatttt atccatcaaa cccagcaaac ctgtctcatg gcacctctc tgcctcccaat agggtggagat cggagtcctg tgctgctgac cctgggcccag acttagccct gacagacctg acatcaccta cgccttccag tgctcagcat gtttgcctcc ctgtctgtca cccctgcgc ctgtcctcctg gctgctggcc gggagggtgat ccagggtcga ggccacgggc ctactcacc tcacggcctg ctacagcctc aggcctggcg ggtgggagga tagctgccac cactcggggg ccaagatccg aacagtgaag ctcccttctt cagtgtccag	gcagagcgag cgcgcctcc gagaaattga gcctcactct tcccttctcc ctcctcctct tcattctcaa cctctccact gattctgggc gccacaacac gccactgtcc ctgggcccga gcccgtggcg gcccctgacc acctacatgc agccaccagc gccatcttca ggggtgctgg ctagggtcga tgaccaccc atctgccatg ggggcttggg ctgccatctc gggtcagcag tgactgtgt tggtgggaca	cggtctggc agcgtcccc tcttccaggt tcctgtgcag ggcgttcaa tgctggccat agccaggcca agctccctca gcttcttca actgtgggc tggctatctt tggtgtgtaa ggacttggga gggtcagcag tgactgtgt tggtgggaca	tggggtctcc tggggtctcc aggggtctcc ccccctccca ccccattctt cgatccccag ctctgaaag ttctctccac ccctcccttc tgcaaacccc ccgggatgag gaccgggggc catgcacctg gtgcccacag ggcgttcaa cagctgggac gtccacctac agtcttcat tcttccctgc agacttcggc cggtctgccc gtgacctgc aaacctaaaa cagccctca cagccctca atctcacacc ggcctacatc gaatgcccc	tgcctgagc gctcttggt aggggtctcc ccccctccca ccccattctt cgatccccag ctctgaaag ttctctccac ccctcccttc tgcaaacccc ccgggatgag gaccgggggc catgcacctg gtgcccacag ggcgttcaa cagctgggac gtccacctac agtcttcat tcttccctgc agacttcggc cggtctgccc gtgacctgc aaacctaaaa cagccctca cagccctca atctcacacc ggcctacatc gaatgcccc	Homo sapiens

336	5118	Vasopressin V1B Receptor	NP_000698.1	<p>ccaccaatgt ggctttcacc atctctatgc ttttgggcaa cctcaacagc tgctgcaacc cctggatcta catgggcttc aacagccacc tgttaccgag gcccttgcgt caccttgcct gtgtgtgggg tccccagccc aggatggccc ggcggtcttc cgacggcagc ctctcgagcc gccacaccac gctgctgacc cgctccagct gcccgcccac cctcagcctc agcctcagcc taaccctcag tgggagggccc aggcctgaag agtcaccaag ggacttggag ctggcagatg gggaaggcac cgtgagacc atcatctttt agaaagact cgttggggtc tggtacttgc ccaggacta gtggagggttc tctgcccacc tcaggcactg gaaatgagag ctgggagggt aagggttga gttagaggag gccctgtctg aagcagagcc aaaggcccag aatgggtccc ctaccctggt gtacagctg cccctagtgt gagggctgcc tcaataagctc ccaatctcag acactggcag tcaggggagaa tcaaaactgcc tgtctccctg gtcttgcctt attcataggg tgtccatgca cacatgtgtgt cccagatcta ggcaggccta ggatgggtgt gtctaggggt ccacgggtgg caggaattca gaggtggcc ttgtgcccgt gctacctgtc tccattctaa cctgactggc acatctcagc ctaaccagga gagggagaa gtgaataaac gtgaggagga ctctatttgg atcctggatt tgttgtgtgt gttgtgtgtg ttgttagaga gaa</p> <p>MDSGPLWDAN PTPRGTLAP NATTPWLGRL EELAKVEIGV LATVIVLATG GNLAVLTLG P QLGRKSRMH LEVLHLALTD LAVALFQVLP QLLWDITYRF QGPDLLCRV KYLQVLSMFA STYMLLAMTL DRYLAVCHPL RSLQQPGQST YLLIAAPWLL AAIFSLPQVF IFSLREVIQ SGVLDCAWDF GFPWGPAYL TWTTLAIFVL PVTMLTACYS LICHEICKNL KVKTQAWRVG GGGRTWDRP SPSTLAATTR GLPSRVSSIN TISRAKIRTV KMTFVIVLAY IACWAPFFSV QMSVWDKNA PDEDSNVAF TISMLLGNLN SCCNPWIYMG FNSHLLPRPL RHLACCGGPQ PMRRRLSDG SLSSRHLL TRSSCPATLS LSLSLTSGR PRPEESPRDL ELADGEGTAE TIIF</p>	Homo sapiens
337	5119	Vasopressin V2 Receptor	NM_000054	<p>agaagatcct gggttctgtg catcctgtctg tctgaccatc cctctcaatc ttccctgccc A aggactggcc atactgccac cgcacacgtg cacacacgcc aacaggcatc tgccatgctg gcatctctat aagggtccca gtccagagac cctgggccc tgaacttgcct cctcaggcag aggctgagtc cgcacatcac ctccaggccc tcagaacacc tgcctcagcc ccaccatgct catggcgtcc accacttccg ctgtgctgtg gacacccc ggaacccgtg ctgcccagcc tgcccagcaa cagcagccag gagaggccac tggacacccc tggcctgtgg cctgagcaat ggccctgtgc tggcggccct gctgctctcc atagtctttg tggcctgtgg gccactgggc accatacac gtcttcattg gccacttgtg agctcggcgg gcccgggcgg gccactgggc ctctgttcca agtctgccc cagctggcct ggaaggccac cctggccgac ctggcctgtg atgcccctgt tggggccgtg catgacgtg gaccgccacc gtgccatctg cgaccgcttc cgtgggccag ctgcccctga tgatcctggc catgacgtg gaccgccacc gtgccatctg catgtatgcc tccctctaca tgatcctggc catgacgtg gaccgccacc gtgccatctg cgtgcccag ctggcgtacc gccatggaag tggggctcac tggaaacggc cgtgtgtagt ggcttgggccc ttctgctccc ttctcagcct gccccagctc ttcatcttgc ccagcgcda cgtggaagggt ggcagcgggg tcaactgactg ctgggcccgtg tttgggagc cctggggccc tcgcacctat gtcacctgga ttgcccctgat ggtgttctgt gcaacctacc tgggtatcgc cgcctgccag gtgctcatct tccgggagat tccgtgagat ctggtgcccag ggccatcaga gaggccttgg gggcggccga ggggacgccc gacaggcag cccgttgagg gagcccagt gtcagcagct gtggccaaga ctgtgaggat gacgttagtg attgtgtctg tctatgtgct gtgctgggca ccttcttccc tgggtgcagct gtgggcccgtg tgggacccgg aggcacctct</p>	Homo sapiens

[illegible]

Homo sapiens

339	5133	Peropsin	NM_006583	
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340	5133	Peropsin	NP_006574.1	ccctattatg gcatgcat cactgtactg atgacacctta acttgccctg ctcc	Homo sapiens
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				VDRYLITICLP DVGRRMTTNT YIGLILGAWI NGLFWALMPI IGWASYAPDP TGATCTINWR	
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				MSVIMICMFL VAWSPYSIVC LWASFGDPKK IPPPMALIAF LFAKSTTFYN PCIYVVANKK	
				FRAMLAMEFK CQTHQTMPVT SILPMDVSQN PLASGRI	
341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	ggactttaga agcgttgtg cccctctctg tccactgaag cggggccctc tccatccca A	Homo sapiens
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342	5519	Brain-Specific Angiogenesis Inhibitor 1	NP_001693.1	MRGQAAPGP VWILAPLLLL FPANASRCSW TLRNPDPTRY DEVLRLCDPS APLAFLQASK PSRAACQMLC RWLDACLAGS AGGPENCLTS LTQDRGHGA GVLEEGRCQN REACGPAGRT SPWSVCSSTC GEGWQTRTRF CSSTCGRGFR DRTRTCRPPQ ASCSQGRQQR TRECNGPSYG GSQRRERVCS GPFFGGAACQ AVRCPRNATG LILRRCELDE GVSEVIQTLV EISQDGTSYS AEENRDKWEE AQLAGPNAKE ATDISFPMKG WRATGDWAKV LQNTTVLNS KVISVTVKPP LGPWSWRGCR TVPLDALRTR TLLMLVIYV SVWRYIRSER FFLSSFCWVL TEAWQSYMAV NYCWLSEGG LLYAFVGPAA VVLPLLALTW MSAVLAVTDR DROEENGDS GGSFQNGHAQ EEKLKLHAK GPPTNFNSLP	gccccccct agcagcccct gggatcccg gggagcctgc gagaatgtcg ccaacttgtc ctggactttg agaagatcat aaccggaagc tgcagcacgc ccggaaaagc agcagacgac acgcccacgt gggtaagaa agcttgaggt gggagaggtc ctccagaccg aggtctgagc gctgctccgc ccgctcctgc ccgcacccc ggcctcaggg accagagcca gatgcaggac gaaggtgcct cagactccgc ctgtggaccg tggacaggcc ctgcggagga gctgctgct ccctcgggaa gcagccagct gtggagggca cagccctccg gaagaagcag gggggaatct aaaaacccaaa aaaaa	gccccccacg cccaatctgg ggaccacgca cggggcccag ctggagcggc ggaagtgcgc aagcggcacc aagacatgtt gacaaggagg tgctggggcc ccctgggaga gctccggaa cgtcgcctgc cgtcgcctgc atcccgctgg tgggccagga cgccacgca ctgggccacg cacagacacg ctgcgggca gcgccaggc gcgccaggc ccggccaggc ggcacaggc ccgagggcca gcgggcagat agcgtcccag ggtacccgct ggcctggcac cgttttttaa tccaggggcc tagaccacg cccccaggg caggactgag tcccttctc tcttcaata	EPCCATLVQK FFGYFSAAV TYQFDSFLES TRTYLGVESE GPPGPTDDFS VEYLVVGNRN GPPAAGPLAP RGDVCLRDV LQTRTRTCLP APGVEGGCE ELQQGFPPAP QTGDPAAEEW NNSAVCPVHG AWDEWSPWSL CPGRAVDGNW NEWSSWSACS VDGKWQAWAS WGSCSVTCGA CEDEDFGAVI WKETPAGEVA NIQMTREHL AKAQRLPGE YYSPTPGDVQ NFVQILSNLL DAYQVTDNLV LSIHKLPSAG EASVFVVGTV LYRNLGSFLA NQTCILWDET DVPSSSAPPQ MEKATLPSVT LIVCGVSSSL GOTQTRNKVM CTLVA AFLHF PALVVAISVG FTKAKGYSTM DGITDKKLIKE RAGASLWSSC VMVHCILRRE VQDAVKCRV IAACRTATIT GTLKRPSLPE DFPNHSLTLK RDKAPKSSFV	Homo sapiens
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343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	<p>GDGDIKFKLD SELSRAQEKA LDTSYVILPT ATATLRPKPK EEPKYSIHID QMPQRLIHL STAPEASLPA RSPPSRQPPS GGPPEAPPAQ PPPPPPPPPP PPQPLPPPP NLEPAPPSLG DPGEPAHPG PSTGPSTKNE NVATLSVSSL ERRKSRYAEL DFEKIMHTRK RHQDMFQDLN RKLQHAAEKD KEVLGPDSPK EKQQTPNKRP WESLRKAHGT PTWVKKELEP LQPSPLELRS VEWERSGATI PLVGQDIIDL QTEV</p> <p>gcgcgcggg agagcgggag cctcgggcct ccgcggggt gcagctacct accctgcgcc A cgccagggt ccgacttag ggatggcaaa ctgcgcccc gtggcgccc cgccaggcg cgccccgc tctgtgtgt gacggcgccc aggaatacca cagcagtgt acatgtgacg tcacactga cagtgcctc ctgtgggcat gtgcaggtt gtgcaggtt cctggcacac tggtgtaac tccgccccct tctctccctc tcagtaaaag aagattacgc ggtgacatgc ctcacagctg atcacgacac acggggatgg agagcaagag ttatggagaa tacagggtgg atgggcaagg gacataggat gacccagcc tgtccctct tactgtctgt gattctgtcc ctgcgctgg ccaccgctt cgaccgcgc ccagtgccct gctctgccct ggccctgggt gtgctctacg gggccttctc gctgcaggac ctcttctcta ccatcgctc gggctgtctc tggaccctgg agaacctga cccacccaag tactccctct acctgcctt caaccgcaag gagcaggtgt gcgacactt tgcctccgc ctgctgccc tggaccacta cctggtcaac ttacctgcc tgcggcctag ccccgaggag cggtggccc agcgagatc agaggtgggg cgccagaag aggagggc agaggggca cggggttg gcgtgtgcag cggtcagc ccctttacct tctgtacct cgacaagac ttcgtgcagc tgtgctgtc ggtgagccc tcgagggcc cgccctgtct ggcccgctt gcctagcct tccgcttctg cgaggtctg ctcatcaaca acaacaactc tagccaattc acctgtgtg tgcctgccc ctggagtgg gagtgtggcc gcgtgcccg caggcgctgc cacttctgc agccaggctg cagctgccc ggagagcgcg ggccggctc caccaccac acatctccag gccctctgc tgcacacc ctgtccaatg cctgtgtgcc cgggggccc gccacactg ctgagggcga ttgcaactg ggagcagca atgattctgt cacaaccgag atgagatag gtgaggagc ggaagaggaa ccgaaagtga aaaccagtg gccgaggtct gcagatgagc ctgggctata catggcgag acaggcgacc cggcggtga ggagtgtcc ccgtggagcg tgtgttccct gacgtgtggg cagggtctgc agtgtcgga ccctgcaac ccctgccc cctatgggac cctgtgcagc ggcccccgc gggagaccag gacctgtgc tcccgagct gcggcgggg gcacggcgtg tggagaggat ggggtctctg gacctgtgc gggcgcaag cctgcagggtt agaatgggt cagactaagc tctgagtat ggtgctgc ggggtgaag gccagtgggtt agaatgggt ccctggggcc catgtccac gtcctgtgc aatgggacc aacagcgca cggaaagtgc agcgtggcg gccagcctg ggccacatgc acgggtgcc tcactgacac ccgggagtgc agcaacctg agtgcctgc cactgatgc aagtggggc catgaaatgc gtggagcctg tgctctaaag cgtgtgacac aggtggcag gcgccttcc gcatgtgcca ggccacggg acgcagggtt accctgcga gggcaccgga gaggaggtga agcctgttag tgagaagagg tgtccagcct tccatgagat gtgcaggat gactacgtga tgcctgatgc gtggaagaa gcagctgtg gcgagatcat ctacaacag tgcctccga atgcctcagg gtctgccag cgccgtgtc tctcagtc ccaaggcgtg gcgtactggg ggtgcccag cttgtctgc tgcatctccc atgagtaccg ctacctgtat ctgtcactta gggagcacct ggccaaagg</p>	Homo sapiens
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344	5520	Brain- Specific Angiogenesis Inhibitor 2	NP_001694.1	<p> cgcgcgacac ccagcgcccg ccaagtgcgc gagcagggg agcgagccg gaccatgcct cgcaccgtgc cggctctac catgaagatg ggctccctgg agcgaagaa attacggtat tcagacctgg actttgaggt gatgcacacc cggaaacggc attcagaact ctaccacgag ctcaaccaga agttccacac ttctgacccg tacgcagcc agtccacggc caagagggag aagcgttggg gtgtgtcttc gggtggggcg gcgagcgga gcgtgtgcac cgataagccc agcctggggg agcgcctccg ctgttcccaa cctgtgcgcc atcagagctg gacaccttc aaatctatga cactgggctc gctgcccccc aagccccgag aacggctgac tctgcaccgg gcagcagcct gggagcccac agaaccacgg gatggtgact tccagacaga ggtgtgagtg ccacgctgga ctgcccactg catataaata tatatatctc tctatttca cactccactt tggaactacc caggagccag cgcctctctc cctctcccca gggtggggca gggagggccc gtggactcag ccaggtggg ggagcggac atggcttggc ctggggtccc agggcccttc ctgtttcttc agaggccctc cagccactgg aaccctatct tcagccacgc ctgtccgctc ctgtcccggg ctggggaggg gggaggggaa cttgttggg aataaacttc actctgtg MTFACPLLLS VILSLRLATA FDPAPSAACSA LASGVLYGAF SLQDLFTIA SGCSWTLENP P DPTKYSLYLR FNRQEQVCAH FAPRLPLDH YLVNFTCLRP SPEEVAQAE SEVGRPEEEE AEAAGLELC SGSGFTFLH FDKNFVQLCL SAFPSEAPRL LAPAALAFRF VEVLINNN SSQFTCGVLC RWSEECGRRA GRACGFAQPG CSCPGEAGAG STTTSPGPP AAHTLSNALV PGGPAPPAEA DLHSGSSNDL FTTEMRYGEE PEEPKVKTKQ WPRSADEPGL YMAQTGDPA EEWSPWVCS LTCGGQLQVR TRSCVSSPYG TLCSGPLRET RPCNNSATCP VHGWEEWGS WSLCSRSRGR GSRSRMTCV PQHGGKACE GRELTKLCS MAACPVEGOW LEWGPWGPCS TSCANGTQQR SRKCSVAGPA WATCTGALTD TRCSNLECP ATDSKWGPWN AWSLCSKTC TGWQRFRMC QATGTQYPC EGTGEVKPC SEKRCISHEY RYLYLSLREH LAKQRMLAG IYNKCPNAS GSASRRCLLS AQGVAYWGLP SEFARISHEY RYLYLSLREH LAKQRMLAG EGMSQVVRSL QELLARTYY SGDLLESVDI LRNVDTFKR ATYVPSADDV QRFQVVSFM VDAENKEKWD DAQVSPGSV HLLRVDEFI HLVDALKAF QSSLIVTDNL VISIQREPVS AVSSDITFPM RRRGMKDWV RHSEDRLEFP KEVLSLSSPG KPATSGAAGS PGRGRPGTV PPGPGSHQR LLPADPDESS YFVIGAVLYR TLGLILPPR PPLAVTSRVM TVTVRPPTQP PAEPLITVEL SYIINGTTDP HCASWDYSRA DASSGDMTE NCQTLETQAA HTRCQCQHL TEAVLAQPPK DLTLELAGSP SVPLVIGCAV SCWALLTLA IYAAFWRFIK SERSIILLNF CLASILASNIL ILVQSRVLS KGVCTMTAAAF LHFFLSSTFC WVLTEAWQSY LAVIGRMRTR LVRKRFLCLG WGLPALVAV SVGFTRTKGY GTSSYCWLSL EGGLEYAFVG PAAVIVLVNM LIGIIVFNKL MARDGISDKS KKQRAGSERC PWASILLPCS ACGAVPSPLL SSASARNAMA SLWSSCWLP LLALTWMSAV LAMTDRRSVL FQALFAVFN AOGFVITAVH CFLRREVQDV VKQMGVCRA DESESDPSC KNGQLQILSD FEKDVLDLACQ TVLFKEVNTC NPSTITGTL RLSDEDEEP KSLVGPES LSFSPLPGNI LVPMASPLG GEPPPPQEAN PYMCGEGGL RQLDLTWLRP TEPGSEGDY VLPRTLSLQ PGSGGGGGED APRARPEPTP RRAAKTVAHT EGYPSFLSVD HSLGLGPAY GSLQNPYGMT FQPPPTPSA RQVPEPERS RTMPRTVPGS TMKMGSLERK KLYRSLDFE VMHTRKRHSE LYHELNQKHF TFDYRSQST AKREKRSVS SGGAERSVC TDKPSPGERP SLQHRRHQS WSTFKSMTLG SLPPKPRERL TLHRAAAWEP TEPDDGDFQT EV </p>	Homo sapiens
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345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	Homo sapiens
			ggataacaac ttacagaggg caaatgacat aggatgaagg ctgttcgtaa cctgctgatt A	
			tatatatttt ccacctatct cctgggttatg tttggattta atgctgcccc agacttctgg	
			tggtcaactt tgggtgaaggg agtcatttat ggatcgtatt ctgtaagtga aatgtttcct	
			aaaaacttta caaaactgcaac ttggacgctg gaaaatccag atccaaccaa atatagcatt	
			tacctgaatt ttcccaaaa ggaccttagc tgctctaact ttctactcct ggcttatcag	
			tttgatcatt ttcccatga aaaaataaag gatcttttaa gaagaatca ttctataatg	
			caactctgca attcccaagaa tgctttcgtt ttctacagt atgataaaaa ttttattcaa	
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			gtattatgta cttggttgga gagctgctta aaatcagaaa atgggagaa acaatcatgt	
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			cagtgcgtga ttttgttaaa taacgtggtg ttacctctga atgagcagac agagggtctgc	
			ctgacccagg agctgcaaac cacccaagtc tgcaatctta ccagggaggc caagcgacca	
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			aatctctatg caggcgatct tctgatgtct gtgagatccc tgagaaatgt gacagacaca	
			tttaaaaggg caagttacat cctgcatct gatggtgtcc agaacttctt tcaaatagtt	
			agcaaccttc tagatgaaga aaacaaggaa aaatgggaag atgcacaaca gatttatcca	
			gggtcaatag agttaatgca ggtgattgaa gattttatcc acattgttgg aatggggatg	
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			gactggggcaa gaaactcaga agatagggtg gtaattccaa aaagcatttt cactccgggtg	
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			gtcacataaa ggcctgaacc caaaaacaac gattcgtttc tggagataga actagctcat	

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atcctgtgtt gtaagtacc gtggaatgga ttgttaaggt aatctttata gataaacctc
aagcaacgat tcatgttga accgttcat atgtgttagt ttcaaaaaa cttcaccatg

346	5521	Brain-Specific Angiogenesis Inhibitor 3	NP_001695.1	<p> aagcacaaatg tatatattta tgcagttttt aaagtttata acagttctgtt tggccattac tacaacttttt actttataat ataaaagcaa agttttttgtc attaaatgaa tgtttgttga gctacattct tcattgcttt aatgcaata aagtaataat ctcaactttta tatgaataat atatttcaca tctttattat tgcagttttc tctagaaagc tctgagaagc tttctctgct gcagctgtgt ataaaatatt taaaattgtg tatggtgttaa ataaactttt gtctacat MKAVRNLLIY IFSTYLLVMF GFNAAQDFWC STLVKGVIYQ SYSVSEMEFPK NFTNCTWTLE P NPDPTKYSIY LKFSKDLSC SNFSLLAYQF DHFSHEKIKD LLRNKHSIMQ LCNSKNAFVE LOYDNFIQI RRVFPTNFPF LQKGEEDQK SFEEFLVLNK VSPSQFGCHV LCTWLESLCK SENGRTESCG IMYTKCTCPQ HLGEWGIDDQ SLILLNNVL PLNEQTEGCL TQELQTTQVC NLTREAKRPP KEEFGMGDGH TIKSQRPVS HEKRVPOEA DAAKFAQTG ESGVEWSQW STCSVTCGQG SQVTRTCVS PYGTHCSGPL RESRVCNNTA LCPVHGWEW WSPWSLCSFT CGRGQTRTR SCTPPOYGGR PCEGPETHHK PCNIALCPVD GQWQEWSSWS QCSVTCNGT QORSRQCTAA AHGSECRGP WAESRECYNP ECTANGQWNQ WGHWSGCSKS CDGGWERRIR TCQGAUITGQ QCEGTGEVR RCSEQRCPAP YEICPEDYLM SMWKRTAPG DLAFNQCPLN ATGTTSRRCs LSLHGVAWE QPSFARCISN EYRHLQHSIK EHLAKQRMIL AGDMSQVTK TLDDLQTKN FYAGDLLMSV EILRNVTDTF KRASYIPASD GVQNFQIVS NLLDEENKEK WEDAQQIYPG SIELMOVIED FIHIVGMGM DFQNSYLMTG NVVASIQKLP AASVLTIDINE PMKGRKGMVD WARNSDRAV IPKSIFTVS SKELDESSVF VLGAVLYKNL DLILPTLRNY TVINSKIIV TIRPEKTTD SFLEIELAHL ANGLNIPYCV LWDDSKTNS LGTWSTQGCK TVLTDASHTK CLCDRLSTFA ILAQQPREII MESSGTPSVT LIVSGLSCL ALITLAVVYA ALWRYIRSER SIILINECLS IISSNILILV GOTQTHNKS I CTTTAFELHF FFLASFCVWL TEAWQSYMAV TGIKIRTLIR KRFLCLGWGL PALVATKSTD FTRTKGYGTD HYCWLSEGG LLYAFVGPAA AVVLNVMVIG ILVENKLVS RAGQMSSEPHS GLTLKCAKCG VVSTTALSAT TASNAMASLM SSCVWLPLLA LTWMSAVLAM TDKRSILFQI LFAVFDLSLQG FVIVMVHCIL RREVQDAFRC RLRCQDPIN ADSSSFPNG HAQIMTDFEK DVDIACRSVL HKDIGPCRAA TITGTLRIS LNDDEEEKGT NPEGLSYSTL PGNVISKVII QOPTGLHMPM SMNELSNPCL KKENSELRRT VYLCTDDNLR GADMDIVHPQ ERMESDYIV MPRSSVNNQP SMKEESKMNI GMETLPHERL LHYKVNPEEN MNPPVMDQFN MNLEQHLAPQ EHMQNLPFEP RTAVKNFMAS ELDDNAGLSR SETGSTISMS SLERRKSRY S DLDFEKMHT RKRHMELFQE LNQKFTLDR FRDIPNTSSM ENPAPNKNPW DTFKNPSEYP HYTTINVLDT EAKDALELRP AEWEKCLNLP LDVQEGDFQT EV gcagaccttg cttcatgagc aagctcatct ctgggacaaa ctggtcgtg A gtgttcatac gaacagacac catggcagag catgattacc atgaagacta tgggttcagc agtttcaatg acagagacca gtaggagcat caagacttcc tgcagttcag caaggtcttt ctgacctgca tgtacctggt ggtgtttgtc tgtggtctg tggggaactc tctggtgctg gtcatatcca tcttctacca taagtgcag agcctgacgg atgtgttctt ggtgaaccta ccccctggctg acctgggtgt tgtctgcact ctgaccttct gggcctatgc aggcattcat gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcattctacac tattaacttc tacacgtcca tgtctcatct cacctgcac actgtggatc gtttcatgtt agtgggttaag gccaccaagg cctacaacca gcaagccaaag aggatgacct ggggcaaggt caccagcttg ctcatctggg tgatatccct gctggtttcc ttgccccaaa ttatctatgg caatgtcttt </p>	Homo sapiens
347	6031	SIV/HIV Receptor BONZO	NM_006564	<p> aagcacaaatg tatatattta tgcagttttt aaagtttata acagttctgtt tggccattac tacaacttttt actttataat ataaaagcaa agttttttgtc attaaatgaa tgtttgttga gctacattct tcattgcttt aatgcaata aagtaataat ctcaactttta tatgaataat atatttcaca tctttattat tgcagttttc tctagaaagc tctgagaagc tttctctgct gcagctgtgt ataaaatatt taaaattgtg tatggtgttaa ataaactttt gtctacat MKAVRNLLIY IFSTYLLVMF GFNAAQDFWC STLVKGVIYQ SYSVSEMEFPK NFTNCTWTLE P NPDPTKYSIY LKFSKDLSC SNFSLLAYQF DHFSHEKIKD LLRNKHSIMQ LCNSKNAFVE LOYDNFIQI RRVFPTNFPF LQKGEEDQK SFEEFLVLNK VSPSQFGCHV LCTWLESLCK SENGRTESCG IMYTKCTCPQ HLGEWGIDDQ SLILLNNVL PLNEQTEGCL TQELQTTQVC NLTREAKRPP KEEFGMGDGH TIKSQRPVS HEKRVPOEA DAAKFAQTG ESGVEWSQW STCSVTCGQG SQVTRTCVS PYGTHCSGPL RESRVCNNTA LCPVHGWEW WSPWSLCSFT CGRGQTRTR SCTPPOYGGR PCEGPETHHK PCNIALCPVD GQWQEWSSWS QCSVTCNGT QORSRQCTAA AHGSECRGP WAESRECYNP ECTANGQWNQ WGHWSGCSKS CDGGWERRIR TCQGAUITGQ QCEGTGEVR RCSEQRCPAP YEICPEDYLM SMWKRTAPG DLAFNQCPLN ATGTTSRRCs LSLHGVAWE QPSFARCISN EYRHLQHSIK EHLAKQRMIL AGDMSQVTK TLDDLQTKN FYAGDLLMSV EILRNVTDTF KRASYIPASD GVQNFQIVS NLLDEENKEK WEDAQQIYPG SIELMOVIED FIHIVGMGM DFQNSYLMTG NVVASIQKLP AASVLTIDINE PMKGRKGMVD WARNSDRAV IPKSIFTVS SKELDESSVF VLGAVLYKNL DLILPTLRNY TVINSKIIV TIRPEKTTD SFLEIELAHL ANGLNIPYCV LWDDSKTNS LGTWSTQGCK TVLTDASHTK CLCDRLSTFA ILAQQPREII MESSGTPSVT LIVSGLSCL ALITLAVVYA ALWRYIRSER SIILINECLS IISSNILILV GOTQTHNKS I CTTTAFELHF FFLASFCVWL TEAWQSYMAV TGIKIRTLIR KRFLCLGWGL PALVATKSTD FTRTKGYGTD HYCWLSEGG LLYAFVGPAA AVVLNVMVIG ILVENKLVS RAGQMSSEPHS GLTLKCAKCG VVSTTALSAT TASNAMASLM SSCVWLPLLA LTWMSAVLAM TDKRSILFQI LFAVFDLSLQG FVIVMVHCIL RREVQDAFRC RLRCQDPIN ADSSSFPNG HAQIMTDFEK DVDIACRSVL HKDIGPCRAA TITGTLRIS LNDDEEEKGT NPEGLSYSTL PGNVISKVII QOPTGLHMPM SMNELSNPCL KKENSELRRT VYLCTDDNLR GADMDIVHPQ ERMESDYIV MPRSSVNNQP SMKEESKMNI GMETLPHERL LHYKVNPEEN MNPPVMDQFN MNLEQHLAPQ EHMQNLPFEP RTAVKNFMAS ELDDNAGLSR SETGSTISMS SLERRKSRY S DLDFEKMHT RKRHMELFQE LNQKFTLDR FRDIPNTSSM ENPAPNKNPW DTFKNPSEYP HYTTINVLDT EAKDALELRP AEWEKCLNLP LDVQEGDFQT EV gcagaccttg cttcatgagc aagctcatct ctgggacaaa ctggtcgtg A gtgttcatac gaacagacac catggcagag catgattacc atgaagacta tgggttcagc agtttcaatg acagagacca gtaggagcat caagacttcc tgcagttcag caaggtcttt ctgacctgca tgtacctggt ggtgtttgtc tgtggtctg tggggaactc tctggtgctg gtcatatcca tcttctacca taagtgcag agcctgacgg atgtgttctt ggtgaaccta ccccctggctg acctgggtgt tgtctgcact ctgaccttct gggcctatgc aggcattcat gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcattctacac tattaacttc tacacgtcca tgtctcatct cacctgcac actgtggatc gtttcatgtt agtgggttaag gccaccaagg cctacaacca gcaagccaaag aggatgacct ggggcaaggt caccagcttg ctcatctggg tgatatccct gctggtttcc ttgccccaaa ttatctatgg caatgtcttt </p>	Homo sapiens

Accession	Gene	Protein	Species	Length	MD5	BLAST
348	6031	SIV/HIV Receptor BONZO	Homo sapiens	NP_006555.1	act	act
349	6204	Lysophosphatidic Acid Receptor Edg4	Homo sapiens	NM_004720	act	act

[illegible]

Homo sapiens

NP_000570.1 MDYQVSSPIY DINYTSEPC QKINVKQIAA RLPELYSLV FIFGVGNML VILILNCKR P
LKSMTDIYLL NLAISDLFFL LTVPFWAHYA AAQWDFGNTM CQLLTGLYFI GFFSGIFFII
LLTIDRYLAV VHAVFALKAR TTFGVWTSV ITWVAVFAAS LPGIIFTRSQ KEGLHYTCSS
HPFYSQQFW KNFQTLKIVI LGLVLPLLVM VICYSGILKT VTRCNKEKR HAVRLLIFTI
MIVYFLQWAP NYIVLLNTF QEEFGLNACS SSNRLDQAMQ LLTCLGMTHC CINPIIYAFV
GEKFRNYLLV FFQKHIAKRE CKCCSIFQQE APERASSVYT RSTGEQEISV GL

C-C
Chemokine
Receptor 5

352 6213

353	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NM_003965	<p>tctgtctctg ggaagtggg cacacgttaa aaaaaatgtt tatttcagtc ttctgaataa A</p> <p>gggaattact ctggctaaaa ttagcttcca gaaagggaaa gtggggctgt atgaatccag</p> <p>gtccagtttg ttgttctctc caggataagg cagctgtcgg aggggaaaaat catctcccat</p> <p>ttctccacag ggcagtctga agatggccaa ttacacgtg gcaccagagg atgaatatga</p> <p>tgctctcata gaaggtgaac tggagagcga ttgagcagag caatgtgaca agtatgacgc</p> <p>ccaggcaact tcagcccaag tggtgccatc actctgctct gctgtgtttg tgatcggtgt</p> <p>cctggacaat ctcttggttg tgcttatcct ggtaaaaat aaggaactca aacgcgtgga</p> <p>aaatatctat ctctaaact tggcagtttc taacttgtgt ttcttgctta cctgcccctt</p> <p>ctgggtctat gctgggggag atcccatgtg taaaattctc attgactgtt acttcgtggg</p> <p>cctgtacagt gagacatttt tcaattgctt tctgactgtg caaaggtacc tagtgttttt</p> <p>gcacaagggc aactttttct cagccaggag gaggtgccc ttgacctgaa tacgtggttt ataaacctca</p> <p>cctggcatgg gtaacagcca ttctggccac ttgacctgaa tacgtggttt ataaacctca</p> <p>gatggaagac cagaataaca agtgtgcat tagcagaact ccttctctgc cagctgatga</p> <p>gacattctgg aagcattttc tgactttaaa atgaaacatt tcggttcttg tcttccccct</p> <p>atttattttt acatttctct atgtgcaaat gagaaaaaca cttaagttca gggagcagag</p> <p>gtatagcctt ttcaagcttg tttttgcat aatggtagtc ttcttctga ttggtggcgc</p> <p>ctacaattt gcatttttcc tgtccacttt caaagaacac ttctcctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctatcgcca ccaccactg</p> <p>ctgcatcaac cctctcctgt atgcgtttct tgatgggaca tttagcaaat acctctgccg</p> <p>ctgtttccat ctgcgtagta acacccact tcaacccagg gggcagctcg cacaaggcac</p> <p>atcgaggga gaacctgacc attccaccga agtgtaaact agcatccacc aatgcaaga</p> <p>agaataaaca tggattttca tctttctgca ttatttctat taaatttctt acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgct aagcactgaa</p> <p>tttgtctcag gcaccgtgca aggtctttta caaacgtgag ctctctgccc tcctaccact</p> <p>tgctccatagt tgggatatga ctagtctcat ttctctgaga agaaaactaa ggcgcggaaa</p> <p>tttgtctaaag atcacataac taggaagtgg cagaactgat ttctcagccc tggtagcatt</p> <p>tgctcagagc ctacgtctgg tccagaacat caaactccaa acctggggga caaacgacat</p> <p>gaaataaatg tattttaaaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NP_003956.1	<p>LILVYKGLK RVENIYLLNL AVSNLCFLT LPFWAHAGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTQRYL VFLHKGFFS ARRVPCGII TSVLAWVTAI LATLPEYVYVY KPQMEDQKYK</p> <p>CAFSRTPFLP ADETFRKHL TLKMNISLV LPLFIFTFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVFLIM WAPYNIAFPL STFKEHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY</p> <p>AFLDGTFKY LCRCFHRSN TPLQPRQSA QGTSREPDH STEV</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p>atgctgagccc cgggcgcgct tctcgccgc atgtcgccgc tactgtctct gctactgctc A</p> <p>aaggtgtctg cctcttctgc cctcggggtc gccctgctgc ccagaaaaa aacttgtctg</p> <p>ggggagagct gtgcacctac agtgatccag cgcgcgggca gggacgcctg gggaccggga</p> <p>aattctgcaa gagcgttct gcgagccga gccaccagg aggagcaggg ggcagcgttt</p> <p>cttgccgggac cctctggga cctgcgggc gccccgggccc gtgaccgggc tgcaggcaga</p> <p>ggggcgagg cgtcgccagc cggaccccc ggacctccaa ccaggccccc tggccccctg</p> <p>agggtggaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccacg</p>	Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	<p>gcctccagc tcttcttca gatctcagag gaggaagaga aggtccccc aggcgctggc atttccgggc gtacccagga gcagagtgtg aagacagtcc ccggagccag cgatcttttt tactggccaa ggagagccgg gaaactccag ggttcccacc acaagccct gtccaagacg gccaatggac tggcggggca cgaagggtgg acaattgcac tcccgggccc ggcgctggcc cagaatggat ccttgggtga aggaatccat gagcctgggg gtcccggccg gggaacacg acgaaccggc gtgtgagact gaagaacccc ttctaccgcg tgaccaggga gtccatgga gcctacgagg tcatgtgtct gtccgtggtg atcttcggga ccggcatcat tggcaacctg gcggtgatgt gcctcgtgtg ccacaactac tacatgcgga ccatctccaa ctccctcttg gccaacctgg ccttctggga ctttctcacc gctgtggag gacttctcct ggtcatcttc cacgagctga ccaagaagtg gctgtggag gacttctcct gcaagatcgt gccctatata gaggtcgctt ccttgggagt caccacctc accttatgtg cctgtgcat agaccgcttc cgtgctgcca ccaacgtaca gatgtactac gaaatgatcg aaactgttc ctcaacaact gccaaacttg ctgttatatg ggtgggagct ctattgttag cacttcaga agttgttctc cgccagctga gcaaggaga ttgtgggttt agtgcccgag ctccggcaga aggtgcatt attaagatct ctcctgattt accagacacc atctatgttc tagccctcac ctacgacagt gcgagactgt ggtggtattt tggctgttac tttgtttgc ccacgcttt caccatcacc tgctctctag tgactgcgag gaaaatccgc aaagcagaga aagcctgtac ccgagggaat aaacggcaga ttcaactaga gactcagatg aactgtacag tagtggcact gaccatttta tatggatttt gcattattcc tgaaaatata tgcaacattg ttactgccta catggctaca ggggtttcac agcagacaat ggacctcctt aatatcatca gccagttcct ttgtttcttt aagtcctgtg tcaccccgat cctccttttc tgtctctgca aaccttcag tcgggccttc atggagtgct gctgctgttg ctgtgaggaa tgcattcaga agtcttcaac ggtgaccagt gatgacaaatg acaacagta caccacggaa ctgcaactct cgctttcag taccatacgc cgtgaaatgt ccacttttgc ttctgtcga actcattgct ga</p>	Homo sapiens
				<p>RRGRDAWGP P NSARDVLRAR APREEQGA F IAGPSWDLPA AGRDPAAGR GAESAAGPP GPTRPPGPW RWKGARGQEP SETLGRNPT ALQLFLQISE EEKGRPRGAG ISGRSQEQSV KTVPGASDLF YWPRRAGKIQ GSHHKPLSKT ANGLAGHEGW TIALPGRALA QNGSLGEGIH EPGGPRRGNS TNRRVRLKNP FYPLTQESYG AYAVMCLSV IFGTGIIGNL AVMCIVCHNY YMRISISNLL ANLAEWDFLI IFFCLPLVIF HELTKKWLLE DFSCKIVPYI EVASLGVTTF TLCAICIDRF RAATNVQMYI EMIENCSST AKLAVIHWGA LLALPEVVL RQLSKEDLGF SGRAPAECI IKISPLPDT IYVLALTYDS ARLWYFPGY FCULTFTIT CSLVTARKIR KAEKACTRGN KRQIQLESQM NCTVVALTIL YGFCIIPENI CNIVTAYMAT GVSQQTMDLL NIISQFLFF KSCVTPVLLF CLCKPFSSRAE MECCCCCEE CIOKSSTVTS DDNDNEYTTE LELSPFSTIR REMSTFASVG THC</p>	
357	6536	Putative Neurotransmi tter Receptor (PNR)	NM_003967	<p>atgagagctg tcttcatcca aggtgctgaa gagcacccctg cggcattctg ctaccagtg A aatgggtctt gcccaggag agtacatact ctgggcatcc agttggtcat ctacctgacc tgtgcagcag gcattgctgat tatcgtgcta gggaatgtat ttgtggcatt tgctgtgtcc tacttcaaa gcttccacac gcttccacac tctcgtctgc tctccctggc cctggctgac atgtttcttg gtctgctggt gctgcccctc agcacattc gctcagtgga gagctgctg ttcttcgggg atttctctct cgcctctgac acctacctg acacctctt ctgcctcacc</p>	Homo sapiens

358	6536	Putative Neurotransmitter Receptor (PNR)	NP_003958.1	<p> tccatcttcc atctctgttt cattccatt gaccgccact gtgccatctg tgacccctg ctctatccct ccaagttcac agtgagggtg gctctcaggt acatctggc aggatggggg gtgcccgcag catacacttc gttattcttc tacacagatg tggtagagac aaggctcagc cagtggtctg aagagatgcc ttgtgtggc agttgccagc tgcgtctcaa taaattttg ggctggttaa acttcccttt gttctttgc cctgctcca ttatgatcag ctgtatgtg aagatctttg tggttgctac gagacaggct cagcagatg ccacattgag caaagccctg gctggggctg ccaagcatga gagaaaagct gccaaagacc tgggcatgtg tgtgggcata tacctctgt gctggctgcc cttcaccata gacacagatg tcgacagcct ccttcacttt atcacacccc cactggtctt tgacatcttt atctggtttg cttacttcaa ctgagcctgc aaccccatca tctatgtctt ttcctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tcttctcacc gcagacacgc actgttgatt tgtaccaaga atga </p>	Homo sapiens
				<p> YFKALHTPTN FLLSLALAD MFLGLLVLP STIRSVESCW FFGDFLCRLH TYLDTLFLCT SIFHLCFISI DRHCAICDPL LYPSEFTVRV ALRYILAGWG VPAAYTSLFL YTDVETRLS QWLEEMPCVG SCQLLNKFW GWLNFPLEFV PCLIMISLYV KIFVATRQA QOITTLKSLS AGAAKHERKA AKTLGIVVGI YLLCWLPFTI DTMVDSLLHF ITPPLVFDFI IWFAYENSAC NPIIYVFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p>	
359	6777	G Protein-Coupled Receptor TM7SF1	NM_003272	<p> cggcgcatg cgcggagacc cccgcgggg cggcgccgc cgtgagcccc gatgagccc A gagcgtcccc ggcgcgcgg cagcgcgcc ggcgcgatgg agacccgcgc gtgggaccca gcccgaacg actcgtcgc gccacgcgt gcccgccgc acccgcccta cgtgaagctt ggcctcaccg tgcgtcacac cgtgttctac ggcgtgctct accagagcgt ctccctcttt ctcgtgctgg tgcgtcgtta ccgccacaag cggctcagct accagagcgt ctccctcttt ctcgtcctct tctggcctc cctgcggacc gtcctctctt ccttctactt caaagacttc gtggcgccca attcgcctcag ccccttcgtc ttctggctgc tctactgctt cctgtgtgc ctgcagtctt tcacctcacc gctgatgaac ttgtacttca cgcaggtgat ttcaaaagcc aagtcacaaat attctceaga attactcaa taccggttgc cctctacctt ggctccctc tctatcagcc ttgttttctt gttggtgaat ttaacctgtg ctgtgctggt aaagacggga aatggggaga ggaaggttat cgtctctgtg cgaagtggcca ttaatgacac gctcttcgtg ctgtgtgccg tctctctctc catctgtctc tacaaaatct ctaagatgtc cttagccaac attacttgg agtccaaagg ctcctccgtg tgcacagtga ctgccatcgg tgcaccgtg atactgcttt acacctctcg ggcctgctac aacctgttca tccgtctcatt tctcagaac aagagcgtcc attcctttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctgg atactatta ttggagatgg tgttatttgt ttgggaactc ttacctacca ccttagtctg ttatttcttc cgaagttagaa atcctacaaa ggaccttacc aacctggaa tggccccag ccatggattc agtccagat cttatttctt tgacaacctt cgaagatatg acagtatga tgaccttgc tggacattg cccctcaggg acttcaggga ggttttgctc cagattacta tgattgggga caacaaacta acagcttctt ggcacaagca ggaactttgc aagactcaac ttggatcct gacaaaccaa gccttgggta gcatcagtta acagttttat ggacgatcc tcagatgaaa agcttcagaa aagcatagt acagctgaat tttaggggca ctttctctta agaaatagaa attgtttttt attgtttaca ggtttccaat ggcccatag gaataagcaa taatgtagac tgataaacc ttattttagt actaaagagg </p>	Homo sapiens

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRERPRRG YVQLWLVLRY PVCLQFFTLT KTGNWERKVI VTVILLYTSR WELLPTTLV LQGFAPDYY atggatcgag agtgggttcc gccagcaatg gccgtggctc ccgtggccg ctggagcgct agcctcaacc aagcacgcct acactcagct agggccgagg gcgtatagcc gcctacggcg ctgctgtgg taccacatca agctttgcag caggtgatgc gcagtgcaca ccagaggacg ccgtcagagc	SAPGPMETPP RHKRLSYQSV LMNLYFTQVI VSVRVAINDT ACYNLFILSF YFFRVRNPTK DWGQQTNSEFL gtgccaaagtc agggggacct gcctggccct tctctgtcca cctacctcta tctcttccac gtacacctg gtacctggg gggccgtgag tctccacct cctgcataca tgggttgggc ccctcgggcg cagcgttggt tgcgggtgct acatagccca ggggcctcat gcctgggctg ccaagagcac ccaagtcocg	PTLTPAVPPY LRTVLFSEFY LLKYRLPLYL ICLYKISKMS YDWNVSDQA HGFSRPSRYF AQAGTLQDST IDPDKPSLG cacttcttgg atactggtgg agcactcgga agcacctgc cactggcgct ctgggcagcg tcatcttcat cccttcttcg tgggtcctgg cagcaggggg acagcagacc tgcggcctgc cgcatgctgc cgccagccag gtggccctct gctcggcggc gctggagcac tggggcccta tctgtgttc acctctact gctacagggg atgccacagc	VFYALLFVFI PFVFWLLYCF LVNLTCAVLV SSVCQVTAIG YVLFVGVLEF DLAWNIAPOG DLAWNIAPOG cgacaaactc ggtggccgtg atggcacccc gacgctgccc atggggaggg cacttctcat cactgcgacc ggccatgccc cagcgtggcc ggcctacaga gactgtgctc cgcatgactgt ggccgagaaag ctatgtgccc cgctgcccg cg
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363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPLA FCVHPLLYMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPQSRELS Q	atggcttcac ccagcctccc gggcagtgac tgctcccaaa tcattgatca cagtcatgtc A cccgagtttg agtggtccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttcgtgatgg gccttctggg gaacagcgc accattcggg tcaccaggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctcggacatc ttggtgttcc tcacggcat gcccatggag tctacagca tcatctggaa tccccgacc acgtccagct acaccctgtc ctgcaagctg cacactttcc tctcgaggc ctgcagctac gtacagctgc tgacgtgct gacactcagc tttagcgtc acatcgccat ctgtcacccc ttcaggtaaa aggtgtgtc gggaccttgc caggtgaagc tgctgattgg ctctgtctgg gtcacctcgg cctgtgtggc actgacctg ctgttttgcca tgggtactga gtacccccg gtgaacgtgc ccagccaccg ggtctcact tgcaaccgt ccagcacccg ccaccacgag cagcccgaga cctccaatat gtccatctgt accaacctct ccagcgtgtg gaccgtgtc cagtcacaga tctctgggc ctctgtgtc tacctgtgtg tctgtctctc cgtagccttc atgtgtgga acatgatgca ggtgtctatg aaagccaga aggtctcgtt ggcgggggc acggggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tctgaggtg gatgtgtg acattggcg tatgtggtat gcccaaccag atcggagga tcatggtgc ggcacaccc aagcacgact ggaagaggtc ctactccgg gcgtacatga tctctctccc ctctcggag acgtttttct acctcagctc ggtcatcaac ccgtcctgt acacgtgtc ctgcagcag tttcggcggg tgtcgtgca ggtcgtgtgc tgccgcctgt cgtgcagca cgcaaccac gagaagcgc tgccgctaca tgcgactcc accacgaca gcgccgctt tgtgcagcgc ccgttgcctc tgcgtcccc gcgccagtc tctgcaagga gaactgagaa gattttctta agcattttt agagcagggc cgagccccag tctaagtcct agtcattgag tctcagatca cttagaccca actcaggcgc gaaaccagcc aatctgtctg cagagaatgg ttttcaggag catgaagttt ga	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1	MASPSLPGSD CSQIIDHSHV PEFEVATWIK ITLILVYLII FVMGLLNSA TIRVTQVLQK P KGYLQKEVTD HMVSLACSDI LVFLIGMPME FYSLIWNPLT TSSYTLISCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSMIC TNLSSRWTFV QSSIFGAFVW YLWLLSVAE MCWNMMQVLM KSQKGSLAGG TRPPQLRKSE SEESRTARRQ TIIIFRLIVV TLAVCWMPNQ IRIRMAAAKP KHDWTRSYER AYMILLPFE TFFYLSSVIN PLYTVSSQQ FRRVFQVLC CRLSLQHANH EKRLRVHAHS TTDSAREVQR PLLFASRRQS SARRTEKIFL STFQSEAEPO SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV	atggcgtgag cccgggagct tcccgtcgc gaagacccag acggcgtcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggtgccc caggggccgg gaacgcgagc caggcgggag cggggggagg ctggcacccc gaggcggtca tctgtcccc gctcttcgcg ctcatcttcc tctgtggcac cgtgggcaac acgtgtgtgc tggcgtgtct gctgcgggc ggcaggcgg tcagcactac caacctgtc atcttaacc tgggcgtggc gacactgtgt ttcatcctgt gctgcgtgccc ctccaggcc acctctaca cctggagcgg ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttcc tcaccatgca cgccagcagc ttcacgctgg ccgccgtctc cctggacagg tatctggcca tccgtacccc gctgcactcc	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	ggacaggtgc cccgggagct tcccgtcgc gaagacccag acggcgtcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggtgccc caggggccgg gaacgcgagc caggcgggag cggggggagg ctggcacccc gaggcggtca tctgtcccc gctcttcgcg ctcatcttcc tctgtggcac cgtgggcaac acgtgtgtgc tggcgtgtct gctgcgggc ggcaggcgg tcagcactac caacctgtc atcttaacc tgggcgtggc gacactgtgt ttcatcctgt gctgcgtgccc ctccaggcc acctctaca cctggagcgg ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttcc tcaccatgca cgccagcagc ttcacgctgg ccgccgtctc cctggacagg tatctggcca tccgtacccc gctgcactcc	Homo sapiens	

366	7221	Galanin Receptor GalR2	NP_003848.1	<p> cgcgagctgc gcacgcctcg aaacgcgctg gcagccatcg ggctcaatctg ggggctgtcg ctgtcttctt cgggccccta cctgagctac taccgccagt cgcagctggc caacctgacc gtgtgccatc cgcgtggag cgcctctgc cgcgcgcca tggacatctg cacctctgctc ttcagctacc tcttctctgt gctggttctc ggcctgacct acgcgcgcac cttgcgctac ctctggcgcg cgcgtgacct ggtggccgcg ggtctgggtg cccgcgcgc caagcgaag gtgacacgca tgatctctcat cgtggccgcg ctcttctgctc tctgtggat gccccaccac gcgctcatcc tctgcgtgtg gttcgccag ttcccgctca cgcgcgccac ttatgcgctt cgcctctct cgcacctggt tctctacgcc aactcctgcg tcaaccccat cgtttacgcg ctggtctcca agcacttcg caaaggcttc cgcacgatct gcgcggcct gctgggcctg gccccaggcc gagcctcgcc cgtgtgtgc gctgcgcgc gggcacccca cagtggcagc gtgttgagc gcgagtcag cagcctgtg cacatgagc aggcggcggg ggcctctctg ccctgccccg gcgcttccca gccatgcac ctcgagcct gtcctggccc gtcctggcag ggcccaagg cagcgacag cctcctgac gttgatgtgg cctgaaagca cttagcgggc gcgctgggat gtcacagagt tggagtcatt gttgggggac cgtgggcg MNVGCPGAG NASQAGGGG WHPEAVIVPL LFALIFLVGT VGNLVLAVL LRGQAVSTT P Homo NLFILNLGVA DLFCILCCVP FQATYITLDG WVFGLLCKA VHFLIFLTMH ASSETLAASV sapiens LDRLAIRYP LHSRELTFR NALAAIGLIW LVGLTYART IRYLWRAVDF VAAGSGARRA KRKVTRMILI APRRAMDIC TFVSYLLPV LVLGLTYART FQGFPLTRAT YALRILSHLV SYANSCVNPI VYALVSKHFR VAALFCLCWM PHHALILCW FQGFPLTRAT YALRILSHLV SYANSCVNPI VYALVSKHFR KGFTICAGL LGRAPGRASG RVCAAARGTH SGSVLERESS DLLHMEAAAG ALRCPGASQ PCILEPCGP SWQPKAGDS ILTVDA </p>	
367	7246	Orexin Receptor 1	NM_001525	<p> ctctccctca ggaagtttga ggcctgagacc cgaagagacc tgggtgcaag cctccaggca A Homo ccttgaaggg atgtggctga ggcctgccc agctccctc ctctccctct gttagagccta sapiens ggatgcccc ctgctcgagc gctcctgag ctcctgagc cctcagccac ccaggggccc cagatggggg tccccctgg cagcagagag cgtccccctg tgcctccaga ctatgaagat gagttctcc gctatctgtg gctgattat ctgtacccaa aacagtatga gtgggtcctc atcgagcct atgtggctgt gttcgtctg gctcgtgtg gcaacagct ggtctgcctg gccgtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc ctggctgacg ttctggtgac tgctatctgc ctgcccggcca gctcgtggt ggacatcact gagtcctggc tgttcggcca tgcctctgc aaggtcatcc cctatctaca ggctgtgtcc gtgtcagtgg cagtgtaac tctcagcttc atcgccctgg accgtggta tgcctctgc caccactat tgttcaag cagagcccg cacagcccg gggcccctg gctccactt ggcctctg gctgtgtcgc tggccatcat ggtgccccag gctgcagtc tggaaatgag cagtgtgctg cctgagctag ccaaccgac aggtctctc tctcgtctg atgaacgctg ggcagatgac ctctatccca agatctacca cagtgtctc tttatgtca cctacctggc cccactggc ctcatggcca tggcctatt ccagatattc cgaagctct gggcccgcca gatccccggc accacctcag cactggtgag gaactggaag cgcctctcag accagctggg gacctggag cagggcctga gtggagagcc ccagccccg ggcgcgcct tctggtgag agtgaagcag atgctgtcac ggaggagag agccaagatg cttatggtg gctggtggt cttcgcctc tgtacctgc ccatacgct cctcaatgtc cttaaagggg tgttcgggat gttccgcca gccagtgacc gcgaagctgt ctacgcctgc ttcaccttct cccactggct ggtgtacgcc </p>	

368	7246	Orexin Receptor 1	NP_001516.1	MPSPATPGAQ MGVPVGSREP SPVPPDYDE FLRYLWRDYL YPKQYEWVLI AAYVAVFVA P LVGNTLVCLA VWRNHMRTV TNYFIVNL SL ADVLVTALCL PASLLVDITE SWLFHGHALCK VIPYLAQAVSV SVAVLTSFI ALDRWYAICH PLEKSTARR ARGSI LGIWA VSLAIMVPQA AVMECSSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWK R PSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML MVLLVFAIC YLPISVLNVL KRVGFMFRQA SDREAVYACF TFSHWLVVAN SAANPIIYNE LSGKFEQEFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggacgtgagc ttctctctcc tgggtgtcatt A ggtgcagcct ccagtgccgg gtcctagatt cctcagctgc ctatctctcc ggtgcaacat cgctgtaaa gacagcaag ccaccgcaga agtgcccg cagaagactc cggaggcatt ggctcagtaa cttttcagct catcttctgc tcgggagccc ctctagcct ctcgcgcag cctttccac cgcaaatcac cagtgctcat gggcagggc gagaggagct tgcagcattg agcggaaacc gacttgagcc cgtgatgtcc ggcccaaat tggaggactc ccccccctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agccctttt aaacccacc gactatgacg acgaggaatt cctgcggtac atctgtgtcg aatacctgca ccgaaaagaa tatgagtggg tctgtatgc cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctgggtt gtgtggcagt gtggaagaac caccacatga ggacggtaac caactacttc atagtcacatc ttctctggc tgatgtgtc tgaccatca cctgccttc agccacactg gtcgtggata tcactgagac ctgggttttt ggacagtccc ttgcaaaagt gattccttat ctacagaccg tgcggtgtc tglgtctgtc ctacactga gctgtatgc cttggatcgg tggatgcaa tctgtcacc tttgatgtt aagagcacag caaagcggc ccgtaacagc attgtcatca tctgattgt ctcctgcatt ataattgatt ctcaggccat cgtcatggag tgcagcaccc tgttcccagg cttagccaat aaacccacc tctttacggt gtgtgatgag cgtgggggtg gtgaaattta tcccaagatg taccatctt gtttcttctt ggtgacatac atggcacccac tgtgtctcat ggtgttggtt tatctgcaa tttctgcaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagagaaaat ggaagccct gcagcctgtt tcacagctc gagggccagg acagccaacg aagtcocgga tgagcgtgt ggcggctgaa ataaagcaga tccgagccag aaggaaaaa gcccgatgt tgatggttgt gcttttggtg tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgcccata ctgaagacag agagactgtg tatgcctggt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt atttataatt ttctcagtg aaaaattcga gaggaattta agctgcgtt ttctgtgtg tgcctggag ttaccatcg ccaggaggat cggctcacc a gggacgaac tagcacagag agccggagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p>aacttgata acatatcaaa actttctgag caagttgtgc tcaatgacat aagcacactc ccagcagcca atggcagcagg accacttcaa aactggtaga atatttattc atatgacaag gatacctgag taaaactatc ctttttaaaa tcaactgggaa cagaaaatttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaaa aaaaaaaa aaa</p> <p>MSGTKLEDSP PCRWSSASE INETQEPFLN PTDYDDEEFL RYLWREYLHP KEYEWVLIAG P YIIIVFVALI GNVLCVAVW KNHMRVTVN YFIVNLSLAD VLVTITCLPA TLVVDITETW FFQSLCKVI PYLQTVSVSV SVLTLSLAL DRWYAICHPL MFKSTAKRAR NSIVIIWIVS CIIMIPQAIW MECSTVFPGL ANKTTLTVC DERWGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPGQ PTKSRMSAVA AEIKQIRARR KTARMLMVVL LVFAICYLPI SILNVLKRVF GMFAHTEDRE TVYAWFTFESH WLVIYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLSLTQ ISNFDNISKL SEQVVLTSIS TLPANGAGP IQNW</p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p>ccagctgata ttccagccca cagcaatgga gccacatgac tctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgctcg gggctcattgc taattgctac gtgctgtggg tctttgcccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcacatggc ggacatgctc ttcttgatca ccttgccact ttggattgct tactacaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgtctcttg gcttctctgg gctgcatcac ttataaccgc ttccaggcag taactcgcc catcaagact gtcaggcca acacccgcaa gcgtggcatc tctttgtcct tggatcatcg ggtggcattt ggtggagctg catcctactt ctcatcctcg gactctacca acacagtgc cagcagtgc ggtcaggca acgtcactcg ctgctttgag cattaacgaga agggcagcgt gccagctctc atcatccaca tcttcatcgt gttcagcttc ttcctggtct tctcatcatc cctctcttgc aacctgtca tcatccgtac cttgcctatg cagccggctg agcagcagcg caacgtgaa gtcaagcgcc gggcgtgtg gatggtgtgc acggtcttgg cgggtgtcat catctgttc gtgccccacc acgtggtgca gtgccccgg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgacat caggtcaccc tctgctcct tagcaccac tgtgtcttag accctgttat ctactgttc ctcaccaaga agttccgcaa gcacctacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcctcaaaa ttagtctctg cttc</p> <p>MADMLFLITL PLWIVYQNO GNVILPKFLC NVAGCLFFIN TYCSVAFGLV ITYNRFQAVT P RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHYKKG SVPVLIHIF IVFSFFLVFL IILFCNLVII RTLLMQPVQQ ORNAEVKRRRA LWMVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDP VIYCFITKKE RKHLTEKFYS MRSSRKCSRA TTDVTEVAV PFNQIPGNSL KN</p>	Homo sapiens
372	8436	Platelet- Activating Factor Receptor	NP_000943.1	<p>MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLMVF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYQNO GNVILPKFLC NVAGCLFFIN TYCSVAFGLV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHYKKG SVPVLIHIF IVFSFFLVFL IILFCNLVII RTLLMQPVQQ ORNAEVKRRRA LWMVCTVLAV FIICFVPHV VQLPWTIAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDP VIYCFITKKE RKHLTEKFYS MRSSRKCSRA TTDVTEVAV PFNQIPGNSL KN</p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Ls8509	NM_007223	<p>tggggggcgtc ctccttcgtc cccgcccggc tgtcaagctg tgttctagcg gccgagggac A cgagggggggc taagaaaggg ggcgcccagc catcgagagg caaaaaggcg ctgcggaaag gggtccccgt cgccagtgtc taggcaggag gtcgagggc cagtgaggcg gctggggaagc aggacccagc acgggcgtct tggcaggcgg ccggggcgcg gcccaggctg ctgggggacgc</p>	Homo sapiens

tcagggtctt ccaccaagc catggggcgt gtccggcact cgggggtccc ctctgggtc
cggccactc gctggggcat tacgttggct tcacatgcc atccagctc gaagccaaca
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cgcggagccg gagtccagc tcggcgccg tccggcgcc aggtgcggg tgtgaaccg agcgcgctc
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tcataggctc gctgctcga aacttcattg tcttgcgc cctgggatt tgtgccagc
tcaaatctgt caccacagg ttcattaaa acctggcctg ctggggatt tgtgccagc
tggctgtgt gccctcgac atcatctca gcaccagtc tcaatgtgc tgggtgact
acaccatgct cttctgcaag gtcgtcaat tttgcaca agtattctg tctgtgacca
tctcagctt cctgctatt gcttggaca ggtactact agtctctat ccactggaga
ggaataatc tgatgcaag tccgtgaac tggatgta catctgggc catgcagtgg
tgccagtg cctgtgtt gcagtaacca atgtgctga catctatgc acgtccact
gcacggaaat ctggagcaac tcttggtg gtggtggtg gatactgac cgacgggccc
ccaggtcat tgtcctgtg aggtcatca tagcagcgt cgggaccca cagaacca
tgagtccag ccagaaga aggtgcct cagcgaggt gcacacctg ctctccatgg
tctctattc ctatgcctc agcgggag agctgccc atgccacct ggtcgtctac cagactgtc
tgatgggtct catcttgt tgacctcc cttttctt ctgtgaaca atctgccc agtgcctga
ccaatgtcc aaacctgt aaacctgt cttttctt cttgtgaaca atctgccc agtgcctga
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gtggcatggc tgaggccagc ctggaacca gcatacgtc gggtagccag ctctggaga
tgtccacat tgggcagcag cagatcttta agccacaga ggaatgagaa gagagtggg
ccaagtacat tggctcagct gactccagg ccaaggagat attagcacc tgcctggag
gagagcagg gccacagtt gcgcccctg cccacacct gagcacagt gactctgtat
cccagggtgc accggcagc cctgtggaac ctgaacatt cctgataag taticcctg
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agaagcggct gcttcccc cttggcaaca cccagaaga gctgattccg acaaggtgc
ccaaggtagg cagggtggag cggaaagatga gcagaacaa taaagttagc attttccaa
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accagagtgt gggaatgctg tggccatgt attgtatgat ctccttgcaa ctcagtgta
gttgatcct ccaatagg ccagatgct ttgaatgata gggaaatcta cataaatcc
agtgtcctct ttattgagg agtataatga tccatctcag tgatccatgt ccttagtgaa
gtccacatta ttctctgtg ggacaagagc tgggcagttt tgaatgggtc ttgaggtggg

374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	<p> taccocatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acaggagcag ggagcaggag cactctaagg gaattc MGHNGSWISP NASEPHNASG AEAAGVNRSA LGEFGEAQLY RQFTTVQVW IFIGSLLGNF P MVLWSTCRTT VFKSVTNRFI KNLACSGICA SLVCVPFDII LSTSPHCWV IYTMFLCKVV KELHKVFCSV TILSFPAL DRYYSVLYPL ERKISDAKSR ELMYIWAHA VVASVPVFAV TNVADIYAT TCTEWSNSL GHLVYLVYN ITTVIVPVV VFELILIRR ALSASQKKKV IIAALRTPQN TISIPYASQR EAEIHATLLS MMVFILCSV PYATLVVYQT VLNVPDTSVF LLLTAWLPK VSLLANPVLV LTVNKSVRKC LIGTLVLQHH RYSRNVVST GSGMAEASLE PSIRSGSQLL EMFHIGOOI FKPTEDDEES EAKYIGSADF QAKEIFSTCL EGEQGPQFAP SAPPLSTVDS VSQVAPAPV EPETFPDKYS IQFGFGPFEL PPQWLSETRN SKRLLPPLG NTPEELIQTK VPKVGRVERK MSRNKVSIF PKVDS </p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p> ttgataggga tagaaacaca ttggctgct tctatagtta acaagatgct gttacattcc A ttgcctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc tggatatattg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaacttgca ttgatatctt gggttctgtt tcatttttta gggctcgaag agcacgtca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctctgctg gatgcctcac aacaaggtgc cttcaaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaat ggaagtttcc ctaaacacc cagcatctaa tacaaccagc acaaagaaca acaactcggc atttttttac tttagagtcct gtcaacctcc tctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tgggaccttt tggaacctc tctctcatca tctccctctt taagaagcag agaaaagctc agaatctcac cagcatactg attgccaatc tctccctctc tgataccttg gtgtgtgtca tgtgcatcca ttttactatc atctacactc tgtggacca ctggatattt ggggatacca tgtgcagact cacatcctat gtgcagagtg tctcaatctc tgtgtccata ttctcacttg tatteactgc tgcgaaaga tatcagctaa ttgtgaacc ccgtggctgg aagcccagtg tgactcatgc ctactggggc atcacactga ttgggtgtgt tccctctctg ctgtctatcc ccttctctt gtctaccac ctcaactgat agccctctcg caacctctct cccccactg acctctacac ccaccaggtg gctgtgtgg agaactggcc ctccaaaaag gaccggctgc tcttccacc ctcccttttt ctgtgtcagt atttgttcc tctaggcttc atctctcatct gctacttgaa gattgttatc tgctccgca ggagaaatgc aaaggtagat aagaagaagg aaaatgaggg ccggctcaat gagaacaaga ggatcaaac aatgttgatt tccatctgtg tgacctttgg agcctgctgg ctgccccgaa tatcttcaat gtcatctttg actgggtatca tgaggtgctg atgagctgg accacgacct ggtatttcta gttggccact tggttgctat ggtttccaca tgtataaac ctctctttta tggctttctc acaaaaaatt tccaaaagga cctggtagtg cttattcacc actgctgggtg cttcacact caggaaagat gtgaaaatat tgccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataacaac aggtatatga aaattgataa tgctgaagct cttcttgaat gggagctgga caggtaatgg tgggaatagg gcaagatgca gaaagaagaa accagaacca aaatatgcaa ctttataccc acttttctt taggctaaga gtgcctgtct catatgtcta tccaacacac cttccaacat acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacacac ctgcccgcga tcatttgttg </p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	mevslnhpas nttstknns affyescqp pspallllci aytvvlivgl fgnlsllili P sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	akvdkkkene grlnenkrin tmlisivtf gacwlpriiss msslgtimrc catccccacc ctctcttctt taataagcag gagcgaaaaa gacaattcc aaagaggatt A sapiens
				gttcagttca agggaatgaa gaattcagaa taattttggt aaatggattc caatcgcgg aataagaata agctgaacag ttgacctgct ttgaagaaac atactgtcca ttgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccag ctctggcct ttgaaaaatga tgattgtcat ctgcccctgg ccatgatatt taccttagct ctgcttatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaaa aaaaggagat gagaaatgtt accaacatcc tgatttgtaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttggtgaggg gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca ttctctctc ggttctcatt gctgtggaac gacatcagct gataatcaac cctcaggggt ggagacaaa taatagacat gcttatgtag gtattgctgt gatttgggtc ctgtctgtgg ctctctctt gcctttcctg atctaccaag taatgactga tgagccgttc caaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgtctta taccactctc ctcttggtgc tgcagtattt tgggtccactt tgtttatat ttatttgcta cttcaagata tatatacgc taaaaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgagtc tgctggctcc ctcttaccat ctttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tatittatgg gtctcgtgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc attbaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat ggtcccgat gacatctgtt taaaaacaag cacaacctgc acatacttt gattacctgt tctcccaagg aatgggggtg aaatcatttg aaaaactga agatttctt gtcttgcttt ttactgcttt tggtgtagt gtcataatta catttggaa aaaagggtg ggctttgggg tctctggaa atagttttga ccagacatct ttgaagtgt tttgtgaat ttatgcata aatataaaga cttttatct gtacttattg gaatgaaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccatacaata cgttcattag attgggtcat cttagtaga ttagattaga ttagattgtc aacagattgg gccatcctta ctttatgata ggcatcatt tagtgtgta caatagtaac agtatgcaa agcagcattc aggagccgaa agatagctt gaagtcattc agaagtgggt tgaggtttct gtttttgggt ggttttgggt tgttttttt ttttttcacc ttaaggggagg ctttctattc ctccgactg attgtcactt aaatcaaaat

378	9421	Neuropeptide NP_000900.1 Y Receptor Type 1	<p> ttaaataatga ataaaaagac atacttctca gctgcaataa ttatggagaa ttgggcaacc acaggaatga agagagaag cagctcccca acttcaaac catttggtta cctgacaaca agagcatttt agagtaatta atttaataaa gtaaatagat attgctgcaa atagctaaat tatatttatt tgaattgatg gtaagagat ttccattttt tttacagac tgttcagtgt ttgtcaagct tctgggtctaa tatgtactcg aaagactttc cgttacaat ttgtagaaac acaatatcg ttttccatcg agcagtgcct atagtgtac tgattttaac ttcaatgtc catctttcaa aggaagtaac accaaggtac aatgttaaac gaattttcac ttacactagc agggaaaaat acacaaaaac tgcagatact tcatatagcc cattttaact tgtataaact gtgtgacttg tggcgctcta taaataatgc actgtaaga ttactgaata gttgtgtcat gttaatgtgc ctaatttcat gtatcttgta atcatgattg agcctcagaa tcatttggag aaactatatt ttaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgtttgattt taaaaggcg gacattttat taaaatcaat attgtttttg ctttttctga ggagtctctt tcagtttcat ttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNESE KNAQLLAFEN DDCHLPLAMI FTLALAYGAV IILGVSGLA P LIILILKQKE MRNVTNLIIV NLSFSDLLVA INCLPFTFVY TLMDSHVEGE AMCKLNPFVQ CVSITVSIFS LVLIIVERHQ LIINPRGWRP NNRHAYVGVIA VIWLVAVSS LPFLIYQVMT DEPFQNVTLT AYKDKYVCFD QFPSDSHRLS YTTLLLVLYQY FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETR INIMLLSIVV AFVWCWLPLT IFNTVFDWNH QIIATCNHNL LFLLCHLTAM ISTCVNPIFY GFLNKNFQRD LQFFNFECDF RSRDDIYETI AMSTMHTDVS KTSILKQASPV AFKKINNND NEKI </p>	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	<p> agccgagcga gcccgagat gggaggcag cgcagctcc gtctctgcaa ggccttctc A ctctggggc tgaacccgt ctctgcctcc ctccaggacc agcactgcga ggcctgtcc ctggccagca acatctcaga caatggctac cgggagtgc tggccaatgg cagctgggccc gccgcgtga attactcga gtgccaggag atcctcaatg aggagaaaaa aagcaagggtg cactaccatg tcgcagtcat catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtcctctt tctgcggctc agtagcatcc ggtgcctgcg aaacatcatc cactggaaac tcatctcgc cttcatctcg cgaacgcca cctgggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctgggt gcaggttgggt gacagccgcc tacaactact tccatgtgac caacttcttc tggatgttcg gcgagggtg ctacctgcac acagccatcg tgctcaccta ctccactgac cggctgcgca aatggatgtt catctgcatt ggctgggggtg tgcccttccc catcatttg ccttgggcca ttgggaagct gtactacgac aatgagaagt tgcggttttg caaaaggcct ggggtgtaca cgaactacat ctaccagggc cccatgatcc tggctcctgt gatcaatttc atcttctt tcaacatcgt ccgcatctctc atgaccaagc tccgggcctc caccagctct gagaccatc agtacaggaa ggcgtgtaa gcaactctgg tgcgtctgccc cctctgggc atcaactaca tgctgttctt cgtcaatccc ggggaggatg aggtctccc ggtcgtcttc atcaacttca actcctctt ggaatccttc cagggtctct ttgtgtctgt gtctactgt ttcttcaata gtgaggtccg ttctgccatc cggaagaggt ggcacgggtg gcaggacaag cactcgatcc gtgcccagat ggcctgtgccc atgtccatcc ccactctccc aaccctgtgc agttttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

380	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	MGHPQLRLV KALLLLGILNP VSASLQDQHC ESLSLASNIS DNGYRECLAN GSWAARVNYS P	Homo sapiens
				EQEILNEEK KSKVHYHVAV IINYLGHCI LVALLVAFVL FLRLRSIRCL RNIIHWNLLIS AFILRNATWF VVQLTMSPEV HQSNVGVWCL VTAAYNYFHV TNFFWMEGEG CYLHTAIVLT YSTDLRLKWM FICIGWGVPF PIIVAWAIGK LYDNEKCVF GKRPGVYTDY IYQGPMLVL LINFIFLNI VRILMTKLRA STTSETIQYR KAVKATLVLL PLLGITYMLF FVNPGEDEVS RVVFIYNSF LESFQGFVS VFYCFNLSEV RSAIRKRWHR WQDKHSIRAR VARAMSIPTS PTRVSFHSIK QSTAV	
381	10457	Frizzled-2	NM_001466	cgagtaaaagt ttgcaaaagag gcgcgggag gcgcagccgc agcgaggag cggcggggaa A gaagcgagcgt ctccgggttg ggggcgggg gcgggggggc gccaaagagc cggtggggg ggggcgggcca gcatcgggcc ccgcagcgcc ctgccccgcc tgcgtctgctg gctgctgctg ctgccccgcg cgggcccgcg ccagttccac ggggagaag gcatctccat cccggaccac ggcttctgcc agcccatctc catcccgctg tgcacggaca tgcctacaa ccagaccatc atgccaaacc ttctggggcca caggaaccag gaggacgcag gcctagaggt gcaccagttc tatccgctgg tgaagtgca gtgctcgccc gaactgcgt tcttctgtg ctccatgtac gcaccgctgt gcaccgtgt ggaacaggcc atccgcgct gcccgtctat ctgtgagcgc gcgcgccagg gctgcgaag cctcatgaac aagttcggt ttccagtggcc cgagcgccctg cgctgcgagc acttcccgcg ccacggcgcc ggcagatct gcgtcgggca gaaccactcc gaggacggag ctcccgcgct actcaccac gcgcgcgcgc cgggactgca gccgggtgccc gggggcaccc cgggtggccc gggcggggc ggcgctcccc cgcgctacgc cagcgtggag cacccttcc actgcgcgcg cgtcctcaag gtgcctcact atctcagcta caagtttctg ggcgagcgtg attgtgctgc gccctgcgaa cctgcgcgc ccatgggttc catgttcttc tcacaggagg agacgcgtt cgcgcgcctc tggatctc cctggtcgt gctgtgctgc gttccacct ttctcactgt caccacgtac tggtagaca tgcagcgtt ccgctaccca gagggccta tcatttttct gtcgggctgc tacaccatgg tgcgggtggc ctacatcgcg ggcttcgtgc tccaggagcg cgtgggtgc aacgagcgt tctccgagga cggttaccgc acggtggtgc agggcacc aaaggagggc tgcaaccatc tcttcatgat gcttacttc ttcagcatgg ccagctccat ctggtgggtc atcgtgctgc tcacctggt cctggcagcc ggcatgaagt ggggccacga gccatcag gccaatctc agtacttcca cctggccgccc tgggcgctgc cggccgtcaa gaccatcac atcctggcca tgggccagat cgacggcgac ctgctgagcg gcgtgtgctt cgtaggctc aacagcctgg accgctgcg gggcttcgtg ctagcgccgc tcttctgta cctgttcat ggaacgtcct tctcctggc cggcttcgtg tcgctcttcc gcattccgac catcatgaag cagcagggca ccaagaccga aaagctggag cggctcatgg tgcgcatcgg cgtcttctcc gtgctctaca cagtgcgcgc caccatcgtc atcgcttgc acttctacga gcaggccttc cgcgagcact gggagcgtc gtgggtgagc cagcactgca agagcctggc catcccgctc ccggcgact acacgcgcg catgtcgcgc gacttcacgg tctacatgat caaatacct atgacgtca tcgtgggcat cagtcgggc ttctggatct ggtcggggcaa gacgtgcac tgcgtgagga agttctacac tcgcctcac aacagccgac acggtgagc caccgtgta gggcgcgcgc caggccgaa ccgcgcggcg cttctctccg cccgggtgg ggccttaca gactcgtat ttatttttt taaataaaaa acgatcgaaa ccatttact tttagggtgc tttttaaaaa agaactctct gcccaacacc ccc	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	NP_001457.1	MRPSALPRL LLPLLLPAA GPAQFHGEKG ISIPDHGFCQ PISIPCLTDI AYNQTIMPNL P	Homo sapiens
383	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	NM_022571		LGHTNQEDAG LEVHQFYPLV KVQSPSELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEOIC VQGNHSEDGA PALLTAPPP GLQPGAGGTP GPGGGGGAPP RYATLEHPEH CPRVLKVPY LSYKFLGERD CAAPCEPARP DGSMMFFSQEE TREARLWILT WSVLCCASTF FTVTTYLVDM QRFRYPERP IFLSGCYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMWLVFFSMA SSIWVWVLSL TWFLAAGMKW GHEAIEANSQ YFHLAAWAVP AVKTTITILAM QOIDGDLISG VCFVGLNSLD PLRGFVLAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDGT KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQAFREHW ERSWVSQHCK SLAIPCPAHY TRMSPDFTV YMIKYLMTLI VGITSGFWIW SGKTLHSWRK FYTRLNLSRH GETTV	Homo sapiens
384	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	NM_022571		atggccttac tgggcagcca gcaactccggc gccccctccg cggccggggc acctggcggg A acttctctcag cggccacggc ggcctgtctc tcttccagca cgtggcgac cgcggcgctg gggaaacctga ggcagcaag cggaggcggc acagctggcg ctcctgggtg cggcggcctt ggcgggtccg gggcagcgcg ggaggcggg ggagcggtga ggcggcgctt aggcggcgag ggcggcgccg tgctgtcgca cggagctgca gtggcgggcc aggcgtcgt cctcctgctc atcttctgc tgtctagcct tggcaactgc gcggtgatgg ggggtattgt gaagcacgg cagctccgca ccgtcaccaa cgccttcttc cgtctcttca ctcggccgg ggttctggcg gcgtgtctt gctcccgcc cgccttctcg cgccttcttc ctcggccgg ggttctggcg cctgcgctgc ccgcggggc ctggcgcgcc ttctgcggc caagcgctt cttcagctcg tcttcgggca tctgttacgc tcagcgtggc gctcatctcg ttggaccgtt actgcgctat cgtcggcgcc cgcgggagaa gatcggcgcc cgcgcgcgc tgcagctgct ggcggggcgc tggctgacgg cctgggctt ctccttgccc tgggagctgc tggggcgccc ccgggaactc ggcggggccc agagcttcca cggctgcctc taccggacct ccccggacc cgcgcagctg ggcggccctt tcagcgtggg gctggtggtg gctgctacc tgcgtgctt cctgctcctc tgcctctgcc actaccat ctgcaagacg gtgcgcctgt cggacgtgcg cgtgcggcgc gtgaacacct acgcgcgct gctgcgttct tcagcgaggt gcgcacggcc accaccgtcc tcatcatga	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557		MALGSGHSG APSAAGPPGG TSSAATAAVAL SFSTVATAAL GNLSDASGGG TAAAPGGGGL P GSGAAREAG AAVRRPLGPE AAPLLSHGAA VAAQALVLLI IFLLSLGNL AVMGVIVKHR QLRTVTNFI LSLSLDLT ALLCLPAAFL DLFTPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLLY RRPPEKIGR RRALQLLAGA WLTAIGFSLP WELLGAPREL AAGQSFHGCL YRTSPDRAQL GGPFSVGLV ACYLLPFLI CFCHYICKT VRLSDVRVRP VNTYARVLRS SARCARPPPS SS	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tggaaaagtg aagatcttag taattacagt
tacagtctta cctgcccc ttttctacta gatgcgccc catgtgaacc agaaccctg
gaaatcaaca agtattttgt ggtcattatc tatgccccg tattcctgtct gagcctgtg
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acctgtgagc gccgcaatca catcgaccg gctctggatg ccaccagat tctgggcac
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tggcactcta ttgtctaaga agtgaatac tacactccag tgagacagct ctgcatactc
attaggatgg ctagtatcaa agaaaagaa atcaggcttg ccaacgggtt gaaacctgtc
tctactaaa atacaaaaa aaaaaaat tagccggcg tgggtgtgag tgcctgtaat
cacagtact tggaggctg agatgggaga atcacttga cccgggagca gaggttgca
tgagccgaga ttgtgcccct gccatccagc ctgagcgaca gtgagactct gtctcagtcc
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acatgatcct gcaattccac ttataggaat tgaccacaa gaaatgaaa cagggacttg
aacccatatt tgtacacca tattcatagc agcttattca caagaccaa aggcagaaa
caacccaaat gttcatcaat gaatgaatga atggctaagc aaaaatgtat atgtacctaa
cgaagtatcc ttcagcctga aagaggaatg aagttactat acatgttaca acacggacga
accttgaaaa ctttatgcta agtgaataa gccagacatc aacagataaa tagtttatga
ttccacctac atgaggtact gagagtgaac aaattacag agacagaaa cagaacagt
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atgtttagga tgttgaaaaa gttctgcaga taacacagtag tgatagtgt accgcaatg
gacttaatgc cactaaattg acacttaaaa atggtttaa tggtaattt tgttatgtat
atattatc aatttaaaaa aaacctgag ccccaaaagg tattttaac accaaggctg
ataaaccaa ggctagaacc acctgcctat atttttgtt aaatgattc attcaatc
tttttttaa taaccattt ttacttgggt ttttat

386	14198	Interleukin- 8 Receptor B	NP_001548.1	MEDFNMESDS	FEDFWKGEDL	SNYSYSSTLP	PFLDDAAPCE	PESLEINKYF	VVIIYALVFL	P	Homo sapiens
				LSLLGNSLVM	LVILYSRVGR	SVTDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFCLK		
				VVSLKEVNF	YSGIILLACI	SVDRYLAIVH	ATRTLTKRY	LVKFICLSIW	GLSLLALPV		
				LLFRRTVYSS	NVSPACYEDM	GNNTANWRML	LRILPQSEFG	IVPLIMLFC	YGFTLRITLFX		
				AHMGQKHRAM	RVIFAVVLIF	LLCWLPYNLV	LLADTLMRFT	VIQETCERN	HIDRALDATE		
				ILGILHSCIN	PLIYAFIGQK	FRHGLLKILA	INGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
387	14641	Calcitonin Receptor	NM_001742		cagaattcca	ggacaagag	atcttcaaaa	atcaaaaatg	aggttccat	A	Homo sapiens
				gtgcttgcca	ctgtttcttc	ttctaataca	cccaacccca	attcttcctg	ccttttcaaa		
				tcaaacctat	ccaacaatag	agcccaagcc	attcttttac	gtcgtaggac	gaaagaagat		
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389	16041	C-C Chemokine Receptor 6	NM_004367	<p> MRFTTSRCL ALFLLNHPT PILPAFSNQ YPTIEPKFL YVGRKKKMD AQYKCYDRMQ P QLPAYQEGP YCNRTWDGWL CWDDTPAGVL SYQFCPDYFP DFDSEKVTX YCDEKGVWFK HPENNRTWSN YTMCAFTPE KLNAYVLY LAIVGSLSI FTLVLSLGF VFRSLGCQR VTLKNNMFLT YILNSMIII HLVEVVPNGE LVRRDPVSK ILHFFHQYMM ACNYFWMLE GIYLTLLIV AVTEKQRLR WYLLGWGFP LVPTTIHAI RAVYENDNCW LSVETHLLYI IHGPVMAALV VNFELNLIV RVLVTMRET HEAESHYLK AVKATMILVP LLGIQFVFP WRPSNKMVGK IYDYVMHSLI HFQGFVATI YCFCNNEVQT TVKRQWAQFK IQWNQRWGR PSNRSARAAA AAEEAGDPI YICHQELRNE PANNQGEESA EIIPLNIEQ ESSA caaacgttcc caaatcttc cagtcggctt gcagagactc ctgctccca ggagataacc A agaagctgca tcttattgac agatggtcat cacattggtg agctggagtc atcagattgt ggggcccgga ttgagctga agggagtga ctagagcact gctgagagt cacctctact ttcctgctac cgctgctgt gagctgaag ggctgaacca tacactcctt ttctacaa cagcttgcat ttttctgccc caaatgagc ggggaatcaa tgaatttcag cgatgttttc gactccagtg aagattattt tgtgtcagc aatactcat attactcagt tgattctgag atgttactgt gctccttgca ggaggtcagg cagttctcca ggctatttgt accgattgcc tactccttga tctgtgtctt tggcctcctg gggaatatcc tgggtgtgat cactttgtct ttttataaga aggccaggct tatgacagac gtctatctct tgaacatggc cattgcagac atcctctttg ttcctactct ccaattctgg gcagttagtc atgccactgg tgcgtgggtt ttcagcaatg ccactgcaa gttgctaaaa ggcattctatg ccatcaactt taactgcggg atgctgctcc tgacttgcatt tagcatggac cgggtacatcg ccattgtaca ggcgactaag </p>	Homo sapiens

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390 16041 C-C Chemokine Receptor 6 NP_004358.1

Homo sapiens

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391 16599 Smoothened NM_005631

Homo sapiens

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				AGFVLAFIGL	
				GVGKKNYR	
				VFVLTIAWH	
				NACFVGSIG	
				WFAEAEHQDM	
				TSFKALGTTY	
				AGFVLAFIGL	
				GVGKKNYR	
				VFVLTIAWH	
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				WFAEAEHQDM	
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				GVGKKNYR	
				VFVLTIAWH	
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				VFVLTIAWH	
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				NACFVGSIG	
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				VFVLTIAWH	
				NACFVGSIG	
				WFAEAEHQDM</	

393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQGAW TLVSNPFCPE PSPQDPFLP SAPAPVAWAH GRRQGLGPIH SRTNLMDEL MDADSDF	atggcctgca acagcacgtc ccttgaggct tacacatacc tgcigtgtgaa caccagcaac A gcctcagact cggggtccac ccagttgcc ccacccctca ggatctcctt ggcatactg atgctgtga tgaccgtggt ggggttcttg ggaacactg tggcttgcac catcgtgtac cagaggccgg ctatgcgtc ggcatacaac ctgctcgttg ccacccctggc cttctccgac atcatgctgt cctctgctg catgcccttc accgctgca cctcatcac cgtgcgtgg cactttgggg accacttctg ccgctctca gccagctct actggtttt tgcctggag ggcgtggcca tctgtctcat catcagcgtg gaccgttcc teatcatcgt ccagcgcag gacaagctga acccgccag gccaaggtg atcatcggt tctcctgggt gctgtcctc tgcatcggg ggcctcgt caccggctg acgtggtg agtgccggc gggggcccc cagtgcgtg tgggtacac ggagctccc gctgaccg cctacgtggt cacttgggt gtggcgtgt tcttcggcc ctttgccgc atgctgtg cctacatgt cactctcaac acggtccgca agaagccgt gcgctgcac aaccagtcg acgacttga cctgcggcag ctcaccagg cggcctgcg gcgctgcag cggcagcaac aggtcagcgt ggacttgagc ttcaagacca aggcctcac caccatcctg atcctcttg tgggtcttc cctcgtggtg ctgcccact ccgtctacag cctcctgtct gtgttagcc agcgtttta ctgcggttc tcttctacg ccaccagcac ctgcgtcctg tggttcagtt acctcaagtc cgtcttcaac ccatcgtct actgctggag aatcaaaaaa ttccgcgagg cctgcataga gttcgtgcc cagaccttc aaatcctcc caagtgcct gagcgatcc gaaggagaat ccagccaagc acagtatacg tgtgcaatga aaacagctc gcggttagt	Homo sapiens
394	17250	G Protein- Coupled Receptor GPR45	NP_009158.1	MACNSTSLEA TYLLNTSN ASDSGSTQLP APLRLSLAV MLMTVVGFL GNTVVCIIIV P QRPAMRSAIN LLLALAFSD IMLSLCMPF TAVTLITVRW HFGDHFCLRLS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRRAKV IIAVSWLSE CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVVTIV VAVFFAPFGV MLCAYMCILN TVRKNVAVRH NQSDSLDLRQ LFRAGLRLRQ RQQQVSDLS FKTKAFTTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVVVCNENQS AV	Homo sapiens	
395	17345	G Protein- Coupled Receptor D6	NM_001296	ggtcttatga cgtgctattg aacacggcag agcctgttgg tgacctgcac acaggagccc A tccagtcagt actgattgaa ttactcaagg ctgcctctct gcaaatgtga gcactacagg acgtcgggac tggcatttc ctccaacat ggcgcacct gctctccgc agccactcgc cactgaggat gccgattctg agaatagcag cttctattac tatgactacc tggatgaagt ggccttcagt ctctgcagga aggatgcagt ggtgtccttt ggcaagtct tcctccagat ctctatagc ctgatttttg tgttggcct cagcgggaa cctctcttc tcatggtctt gtcccggtac gtgcctcgca ggcggatggt tgagatctat ctgctgaatc tggccatctc caacctctg tttctggtga cactgccct ctggggcatc tccgtggcct ggcatgggt cttcgggagt ttcttgtga agatggtgag cactcttat actattaact ttacagatgg catcttttc attagctgca tgagcctgga caagtacctg gagatcgttc atgctcagcc ctaccacagg ctgaggacc cggccaagag cctgctcctt gctaccatag tatgggctgt gtccctggcc gtctccatcc ctgatattgt ctttgtacag acacatgaaa atcccaaggg tgtgtggaac tgccacgcag atttcggcg gcattgggacc atttggagc tcttctccg	Homo sapiens	

396	17345	G Protein- Coupled Receptor D6	NP_001287.2	Homo sapiens
			<p> cttccagcag aacctccatg ggtttctctt tccactcctt gccatgatct tcttctactc ccgtatttgt tgtgtcttgg tgaggctgag cccgcaggc caggccggg ctttaaaat agctgcagcc ttgtgtgtgg cttctctgt gctatgttc ccatacaatc tcacctgtt tctgcatacg ctgttgacc tgcaagtatt cgggaactgt gaggtcagcc agcatctaga ctacgcactc caggttaacag agagcatgc cttctctcac tgcgtctttt ccccatcct gtatgccttc tccagtcacc gcttcgcga gtacctgaag gctttcctgg ctgccgtgct tggatggcac ctggcaactg gcactgccca ggcctcata tccagctgtt ctgagagcag catacttact gcccaagagg aaatgactgg catgaatgac ctggagaga ggcagctcga gaactacctc acaaaagagg atgtgggaa taaatcagcc tgaagtacca aattttggtc tgggtggaaac agatgggaac cagctcaatt ggggtgtccac tcaaatgtct C </p>	
			<p> MAATASPOPL LRRYVPRRM VEIYLNLAI SNLLFLVTLF VVSGKVFLP VFYSLIFVLG P LSGNLLLMV GIFFISMSL DKYLEIVHAQ PYHRLTRAK FWGISVAWHW VGSFLCKMV STLYTINFYS GIVFNCHADFG GHGTIWKFLF RFQNLILGFL LPLLAMIIFY SRIGCVLVR VFVQTHENPK GWNCHADFG VLWFPYNLTL FLHTLLDLQV FGNCEVSQHL DYALQVTE RPAGQGRALK IAAALVAFV QYLKAFLLAV LGWHLAPGTA QASLSCSES SILTAQEEMT AFLHCCFSPY LYAFSSHRFR QYLNKEDVG NKSA GWNLDIGERQS ENYPNKEDVG NKSA </p>	
			<p> NP_001287.2 </p>	
			<p> NM_001470 </p>	
			<p> Gaba (b) Receptor 1 </p>	
			<p> cgtctcccg cctcgtgct ggcgcggcc cggggaagaa gagacagggg tgggggttgg A gggaagcag agaggagggg agagaccctg gccagctgg agcctggatt cgaggggagg agggacggga ggaggagaaa ggtggaggag aaggcgggg ggaagcggga ggagcggcg ggcctggggc cttgagccc cttgagccc ggggagagcc ggggagcggc cagatgttt ctgtgtgtg tactggccc actcttctc cgcctccccc ggcggggcgg ggcgcagacc cccaacgcca cctcagaagg ttgccagatc atacacccc cctgggaagg ggcacatcag taccggggcc tgactcggga ccaggtgaag gctatcaact tctgccaagt ggactatgag attgagtatg tgtgccgggg ggagcgcgag tgggtggggc ccaaggtccg caagtgcctg gccaacggct cctggacaga tatggacaca cccagccgct gtgtccgaat ctgctccaa tcttatttga cctggaaaa tgggaagggt ttcctgacgg gtgggggacct cccagctctg gacggagccc ggtggattt ccggtgtgac cccagcttcc atctggtggg cagctccogg agcatctgta gtcaggcca gtcaggacc ctcaggccc actgccaagt gaatcgaag ccacactcag aacggcggc agtgtatc ggggcaactgt tccccatgag cgggggctgg ccagggggccc aggcctgcca gcccgggtg gagatggcg tggaggacgt gaatagccg agggacatcc tgcgggacta tgagctcaag ctcatccacc acgacagcaa gtgtgatcca ggccaagcca ccaagtacct atatgagctg ctctacaacg accctatcaa gatcatcctt atgcctggct gcagctctgt ctccacgctg gtggtgagg ctgctaggat gtggaacctc attgtgcttt cctatggctc cagctacca gccctgtcaa accggcagcg tttccccact ttcttccgaa cgcaccatc agccacactc cacaacctc cccgctgaa actctttgaa aagtggggtt ggaagaagat tgctaccatc cagcagacca ctgaggtctt cacttcgact ctggagacc tggaggaacg agtgaaggag gctggaattg agattacttt ccgccagagt ttcttctcag atccagctgt gccctgcaa aacctgaagc gccaggatgc ccgaatcatc gtgggacttt tctatgagc tgaagcccgg aaagtctttt gtgaggtgtg caaggagcgt ctctttggga agaagtacgt ctgggttctc attgggtggt atgctgacaa ttggttcaag </p>	
			<p> Homo sapiens </p>	

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398	17535	Gaba (b) Receptor 1	NP_001461.1	FLRPPGAGGA QTPNATSEGC QIIHPPWEGG IRYRGLTRDQ VKAINFLPVD P YEIEYVCRGE REWVGPKVRK CLANGSWTDM DTPSRCVRIC SKSYLTLENG KVFLTGGLDLP ALDGARVDFR CDPDFHLVGS SRSICSGQW STPKPHCQVN RPHSERRAV YIGALFPMSSG GWPGGQACQP AVEMALEDNV SRRDILPDYE LKLIHDSKC DPGQATKYLY ELLYNDPIKI ILMPGCCSVS TLVAEARMW NLIVLSYSS SPALSNRQRF PTFERTHPSA TLHNPTRVKL FEKWGWKKIA TIQQTTEVFT STLDDLEERV KEAGIEITFR QSFESDPAVP VKNLKRQDAR IIIVLFYETE ARKVFEVYK ERLFGKKYVW FLIGWYADNW FKIIDPSINC TVDEMTAEAVE GHITTEIVML NPANTRISIN MTSQEFVEKL TKRLKRHEE TGGFQEAFLA YDAIWAALALA LNKTSGGGR SGRVLEDFNY NNQITDQIY RAMNSSFEG VSGHVVDAS GSRMAWLLIE QLQGSYKKI GYDSTKDDL SWSKTDKIG GSPADQTLV IKTFRLSQK LFISVSVLSS LGIVLAVVCL SENIYNHVR YIQNSQPNLN NLTAVGCSLA LAAVEPLGLD GYHIGRNQFP FVCQARLWLL GLGFSLGYS MFTKIWWVHT DVTSILQLEH WSKRKMTWL GIFYGYKGLL DVLTLAIWQI VDPLHRTIET FAKEPKEDI NVAVLCLITA PVTMILSSQQ DAAFAFASLA LLLGIFLAYE TKSVSTELIN DHRAVGMAIY NVAVLCLITA PVTMILSSQQ DAAFAFASLA IVFSSYITLV VLFVPMRRL ITRGEWQSEA QDTMKTGSST NNNEEEKSRL LEKENRELEK IIAEKEERSV ELRHLQSRQ QLRSRRHPPT PPEPSGGLPR GPPEPPDRLS CDGSRVHLLY K	Homo sapiens
399	17666	Glucagon- Like Peptide 1 Receptor	NM_002062	gaattccggg ttgtgcatc cactctggaa cgcctcgtgt gtggcctgtc ggaatgacat A cgccctcatc agtctccgca cgcgttcccg aggtggcagc gatggcccag tcctgaactc cccgccatgg ccggccgccc ccggccgctg cgccttgccg tctgtctgtc cgggatgggtg ggcaggcccg gcccgcgccc ccagggtgcc actgtgtccc tctggagagc ggtgcagaaa tggcagagaat accagaccca gtgccagcgc tccctgactg aggatccacc tcctgccaca gacttgttct gcaaccggac ctctgatgaa tacgctctgt ggcacagatgg ggagccaggc tcgttcgtga atgtcagctg cccctggtag ctgccctggg ccagcagatgt gccgcagggc cacgtgtacc ggtctgtcac agctgaaggc ctctggctgc agaaggacaa ctccagcctg ccctggaggg acttgtcgga gtgcgaggag tccaaagcag ggagagagaa cccccggag gagcagctcc tgttcctcta catcatctac accgtgggct accgactctc ctctctctgt ctggttatcg cctctcgcat cctcctcggc ttcagacacc tgcactgcac caggaactac atccacctga accgttttgc atccttcac ctgcgagcat tgcctgtctt catcaaggac gcagccctga agtggatgta tagcacagcc gccagcagc accagtggga tgggctcctc tcctacctgg actctctgag ctgccgcctg gtgtttctgc tcatgcagta ctgtgtggcg	Homo sapiens

400	17666	Glucagon- Like Peptide 1 Receptor	NP_002053.1	MAGAPGRLRL ALLLLGMVGR AGPRPQATV FCNRTFDEYA CWPDPGPGSF VNVSCPWYLF RDLSECEESK RGRSSPEEQ LLFLYIIYTV LNLFASFILR ALSVFINKDAA LKWMYSTAAQ YVWLLVEGVY LYTLFAFVL SEQWIFRLYV SNMNYWLIIR LPILFAIGN FLIFVRVICI GTHEVIFAFV MDEHARGTIR FIKLFTELSE RLEHLHIQRD SSMKPLKCPT SSLSSGATAG SMTETVQKWR EYRQCQORSL YRFTAEGLM WASSVPQGHV IASAILLGER HLHCTRNYIH QHQWDGLLSY LDSLSCLRVF LLMQYCVAA SIGWGVPLLF VVPWGIKYL YEDEGCWTRN VVSKLKANLM CKTDIKCRLA KSTLTILPLL TSFQGLMVAI LYCFVNNEVQ LEFRKSWERW SCS	Homo sapiens
401	18471	G Protein- Coupled Receptor LOC51210	NM_016372	gcaattact actgggtctt ggtggagggc ggtgtacctgt acacactgtc ggccttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccccctg ctgtttgttg tccccgggg cattgtcaag tacctctatg aggacgagg ctgctggacc aggaactcca acatgaacta ctgggtcatt atccggctgc ccttctctt tgcctattggg gtgaacttcc tcatctttgt tcgggtcatc tgactctggt tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga cttgccaagt ccacgtctgac actcatcccc ctgctgggga ctcagtgggt catctttgcc tttgtgatgg acgagcacgc ccggggggacc ctgcgcttca tcaagctgtt tacagagctc tccttcacct ccttcaggg gctgatgggtg gccatattat actgctttgt caacaatgag gtccagctgg aattcggaa gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt cccaccagca gcctgagcag tggagccacg gcgggcagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgcc tgccctccct ggggtccttg ctgcagccgg gtggccaatc cagctcccc cacaataacc SLWETVQKWR EYRQCQORSL TEDPPPATDL P YRFTAEGLM WASSVPQGHV IASAILLGER HLHCTRNYIH QHQWDGLLSY LDSLSCLRVF LLMQYCVAA SIGWGVPLLF VVPWGIKYL YEDEGCWTRN VVSKLKANLM CKTDIKCRLA KSTLTILPLL TSFQGLMVAI LYCFVNNEVQ LEFRKSWERW SCS	Homo sapiens

402	18471	G Protein- Coupled Receptor LOC51210	NP_057456.1	MDTLEEVTA NGSTALPPPL LLMKLPARA KIRITSSPIF TRFFLLAIEL SVIILGLAFG EDFNIIYGHG RQFWLVSSCF LOGIGSVLLC FDIIEGLCCV TEEPDVHLPO PYAVARREGL NSTDSERWKA INA	caaaaaaaaa aaaaaaaaaa ccagatgtac acctacccca ggggctgtg gggcctcagc gtggcctacc tggatgacat gacagcagc gctggaaggc agggcagaga ggaggccagc cgttctgtgg gcagtagccc tccttggggc tcccaatccc ccacactgt ctcatactgc ggcaaggttg gctgagggca tctcccaatg cctccatccc gtggatggac tgaagtgtgt caaaaaaaaa aaaaaaaaaa ggcctacgct gtggcccgcc tgccagctac tgagcaagc cgcttccatg ccctgccaca catcaatgcc tgaggcgagc agggccagag tcccagagc tgtgtggccc tgttccccc ctttggccatc tctgctctca tcagtacat gggccaggct ccctccttct ctgcacccct atccccatgg tgccttggcc gatctatttt ttaataaaaa tttg	SRVRYWDL LLIPNVLF LFIP SMTVSTSNAA TVADKILWEI VLAITTVLSL AYSVTQGTLE SLPSRRSFYV YAGILALLNL RGFFGSEPKI LFSYKQCQVDE AGGVAYLDDI ASMPCHTGTGSI	Homo sapiens
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404	19072	G Protein- Coupled Receptor	ENSP00000016 4265	<p> ttggaaccc aggttcagag aggtgtaaa agctgcctag agtcaggcca gctgtgtggg acttgaacc acatccggca actgcaggcc ccaggcccta gctgtctacag tgcagaagag ttactcccc ttgcccaagg cccatttttt tgtttttgtt ttactttatt tattttatta tttttgagac agagtgttgc tctgtgtgccc caggctggat gtgcaatggc acaatctcag tccactgcaa cctctgcttc ttgggttcaa gctgtctccc tgcctcagcc tccaaagtagc ttggattaca ggtgtccgct gccacgctg gctaattttt tttttgtatt tttagtagacg acaggttttc acctgttag tcaggctggt ctgaaactcc tgacctcagg tgatctgccc atctcagcct cccaaactgc taggattaca agcgtgaacc actgcatctg gcctcaaggg ccgtttgatg cagaggtagg atagcatacc catgggtttc ctggtgggtc caggtcccag gatggacaga ggaagctttt gtgcccagg taggtaggtg ggggcgcagg atcaggagac agagcaaggc caggcgggc ctcaaatgtc tgttggggag ttgacctga tactaacggc ttgggaaggc caagtgagg gctgctgtga gaaaggcctt gccgacaaag gtctgaggtc cagaggggtt gctgtgggtc ctctgtgtga agctgggacc agcttggccc aagaatgaag tctggactca gtgccaacc cctgccccct gcaggactct acgcccattcc ccgaaaggtc tgcagtga caggagagg actggggcaa agaccagctt gagggttttc atccaagcag caggcaagac tgccttccct gagccattgc agacatgag gacatgagct ccagaatggt gactcgggg gtggcagctt cagagtcagg gccttgctca ggaaggcagc cccactgccc cccccccagc agcctgggtt cccccagct aggggtcttc atgtgtacag tgggggctgg cagcccggtc cctgtgcaga tggaggcgag gggcttctatg aaacagcaga gaccacaaag gcaactcggg agcagagtgg gggcagtggt ggggagaggc ggggtctggga gggagtcaga accaccctg cgtctcttac ggacgggaa gagggtacag cttgtggggc cactccatgc tgtgtttata aagcgtccgg agtcttacc ctctagagca tggcctgttc ttageccatt ttccagatga aaaaactgag cccaaaagg gtttagagc tttctgaggg tcactgtggc caaaaacggc agaatacaaca tccccacatc ctccacactt tccacttttt gtggcagtca cttaagcatc actcttttgg acagagcaac gagggtctatc ctgggagagag aggaatgcag ggacccaaaa gcagggttag ggtgaggag gccactggcc gggaaggggg tggtagaatc ttgaacaggc ttgagacctg gttctctaa gctcagtttc ctcatctcaa aaaggggatg gcagccgggc acagtgtatc ataccgtaa tccagcact ttgggaggcc gaggcaggag gatctcttaa gccaggaga tggaggctgc agtgagccat gattgagcca ctgactcca gcttgggtga cagaatgaga ctgtctcaa acaagcggg gaggaggtgg taatccatgc cccacttctc tccatgggca gccaggaga agacagagca aggccaccca gtgctgccc gttagccagt agctcccgga agggggggc tccactgcc acgctccagc tcttttctcc ccaaggggcc ctctccttg gcagataccc acctgtcaga cctgcccgtac acatggggag accgagactc aggggagct tgtgtgatgg tgggggggtcc tgcagtgccc aggccgagcc ctgtgcccac aggtgtgtag ctccagcagc ctgctggggcc agcctcagc gccctggatg gcactctg tctgtgtgtg ctccgtggc caggccctgc tgcctgctgt gtccctctgg gcctgcgacc gctaccgggc tgacctcaa gctgtccggg agaagtgcac ggccctcatg gccaacgacg aggagtcaga cgatggt gcaacacgacg aggagtcaga cgatggt SDERLPGSA VGNLVCGLS LLANAWGILS VGAKQKKWKP LEFLCTLAA THMLNVAUPI P ATYSVVQLRR QRPDFWNEG LCKFVSTFY TLTLATCFVS TSLSYHRMM VCWPVNYRLS sapiens NAKKQAVHTV MGIWMVSFIL SALPAVGWHD TSERFYTHGC RFIVAEIGLG FGVCFLLLVG </p>	Homo
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Ls19072

405

19501

G Protein-
Coupled
Receptor
KIAA0758

AB018301

Homo
sapiens

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407	21632	G Protein- Coupled Receptor Ls21632	AB040964	ISAPINSLQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSSPGSL GAINILDLL STVPTQVNSE NMTHVLSTVN VILGKPVINT WKVLQQWTN QSSQLLSHVE RFSQALQSGD SPPLSFSQTN VQMSSTVIKS SHPETYQORF VEPYFDLWGN VWDKSYLEN LQSDSSIVTM AFPTLQAILA QDIQENFAE SLVMTTVSH NTTMPFRISM TPKNNSPSGG ETKCVFNNFR LANNTGGWDS SGCYVEEGDG DNVTICDHL TFSFILMSPD SPDPSSLLGI LLDIISYXGV GESILSLAAC LVVEAVWKS VTKNRTSYMR HTCIVNIAAS LLVANTWFIV VAAIQDNRYI LCKTACVAAT FFHFFYLVS FFWMLTLGLM LFYRLVFILH ETSRSTQKAI AFCLGYGCPL AISVITLGAT QPREVYTRKN VCWLNWEDTK ALLAFAPAL IIVVNITIT IIVITKILRP SIGDKPKQKE KSLFQISKS IGVLTPLLGL TWGFGLTTFV PGTNLVFIHII FAILNVFQGL FILLFGCLWD LKQVEALLNK FSLSRWSSQH SKSTSLGSST PVFMSSSIPIS RRFNNLFGKT GTYNVSTPEA TSSSLENSSS ASSLLN	Homo sapiens
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408 21632 G Protein-
Coupled
Receptor
Ls21632 BAA96055.1 Homo sapiens

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409 22315 G Protein-
Coupled
Receptor
GPR92/GPR93 NM_020400 Homo sapiens

410	22315	G Protein- Coupled Receptor GPR92/GPR93	NP_065133.1	<p>gtgatggtgc tgcgtggccgg cgccaaactgc gtctgggacc gtctgggtgta ctacttttagc</p> <p>gccgagggtc tccgcaaacac cctgcgcggc ctggggcactc cgcaccgggc caggacctcg</p> <p>gccaccaacg ggacgcgggc ggcgctcgcg caatccgaaa ggtccgccgt caccaccgac</p> <p>gccaccaggc cggatgccgc cagtcagggg cgtgctccgc cctccgactc ccactctctg</p> <p>tctctctca cacagtgc ccaggattcc gccctctga</p> <p>MLNCSSTNS SVLPCCDYRP THRLHVVYS LVLAAGTGLN ALALWVFLRA LRHVSVVSVY P Homo sapiens</p> <p>MCNLAASDLL FTLSLEVRLS YYALHWPEP DLLCQTGAI FQNMVYGSCI FLMLINVDYR</p> <p>AAIVHPLRLR HLRRPRVARL LCLGVWALIL VFAVPAARVH RPSRCRYRDL EVRLCFESFS</p> <p>DELMKGRLLP LVLAELGFL LLPLAAVVYS SGRVFWTLAR PDATQSQRRR KTVRLLLANL</p> <p>VIFLLCFVPY NSTLAVYGLL RSKLVAAVSV ARDRVGVLM VMVLLAGANC VLDPLVYFYS</p> <p>AEGFRNTLRG LGTPHRARTS ATNGTRAALA QRSASVTID ATRPDAASQG LLRPSDSHSL</p> <p>SSFTQCPQDS AL</p>
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299/448

413	25359	G Protein- Coupled Receptor GPR34	NM_005330	<p> YECVPYKVEQ KVELCPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRDT TLTEYSSKDD FIAGRPTTTY KLPHRVDTGT FVYDGALEF NKERTRNIVK FDLTRIKSG EAIIANANYH DTSPYRWGK SDIDLAVDEN GLWVIYATEQ NNGKIVISQL NPYTLRIEGT WDYADKRS SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVFPFNS YQYIAADVYN PRDNLVYWN NYHVVKYSLD FPLDSTRSGQ AHGQVSYIS PPIHLDSELE RPSVKDISTT GPGLMGSTTT STTLRTTILS PGRNSTSPS GRNRSTSTP SPAVEVLDDM TTHLPSASSQ IPALEESCEA VEAREIMWFK TRQGQIAKQP CPAGTIGVST YLCLAPDGIW DPQGPDLNC SSPWNHITQ KLKSGETAAN IARELAEQTR NHINAGDITY SVRAMDQLVG LLDVQLRNL PGKDSARS LNKLQKRERS CRAYVQAMVE TVNNLLQPQA LNAWRDLTTS DQLRAATMLL HTVEESAFVL ADNLKTDIV RENTDNIKLE VARLSTEGNL EDLKFPENMG HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSHVIVNSP VITAAINKEF SNKVYLADPV VFTVKHIKQS EENFNPCSF WSYSKRTMTG YWSTQGCRLL TTNKTHTTCS CNHLTNFAVL MAHVEVRKHS AVHDLLEDVI TWVGILLSLV CLLICIFTFC FFRGLQSDRN TIHKNLCISL FVAELFLIG INRTDQPIAC AVEPAALLHFF FLAFTWMFL EGVQLYIMLV EVFESEHSRR KYFYLVGYGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF IWSFIGPATL IIMLVIFLG IALYKMFHT IALKPESGCL DNINYEDNRP FIKSWVIGAI ALLCLLGLTW AFGLMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMWND TVRKQSESSF ITGDINSSAS LNREPYRETS MGVKLNIAQ IGASEQCOGY KCHGYSTTEW atgagaagtc ataccataac aatgacgaca acttcagtc gacagctggcc ttactctctcc A cacagaatgc gctttataac caatcatagc gaccaacccg cacaaaaactt ctacagcaaca cctctctctg ttctctctg catggatgaa aaattgctat ctactgtgtt aaccacatcc tactctgtta ttctcatcgt gggactggtt gggaacataa tggccctcta tgtatttctg ggtattcacc gtaaaagaaa ttccattcaa attattctac ttaacgtagc cattgcagac ctcctactca tctctgcct cctttccga ataattgata atattaacca aaacaagtgg acactagggtg tgattctgtg caaggttgg ggaacactgt ttatatgaa catgtacatt agcattattt tgcttgatt catcagttg gatcgctata taaaaataa tcggtctata cagcaacgga agcaataac aaccaacaa agtatttatg tctgttgtat agtatggatg cttgctcttg gtgattcct aactatgatt atttaaac ttaagaaagg aggcataat tccacaatgt gttccatta cagagataag cataacgcaa aggagaaagc catttttaac ttcattcttg tggtaattgt ctggctaatt ttctactaa taatccttc atataatga attgggaaga atctattgag gatttctaa aggaggtcaa aatttctaa ttctggtaa tatgccacta cagctcgtaa ctcctttatt gtactatca ttttactat atgttttgtt ccctatcatg ccttcgatt catctacatt tctcacagc taaatgtatc atcttgctac tggaagaaaa ttgtcacaa aaccaatgag atcatgctg ttctctcatc ttcaatagt tgcttagatc cagtcagtga ttctctgatg tccagtaaca ttcgcaaaa atgtgcca cttcttttta gacgatttca agtgaacca agtaggagtg aaagcattc agaatttaa ccaggatact cctgcatga tacatctgtg gcagtgaata tacagtctag ttctaaaaagt acttga </p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p> MRSHTITMTT TSVSWPYSS HRMFITNHS DQPPQNFSA PNVVTCPMDE KLLSTVLTTS P YSVIFIVGLV GNIILYVFL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW </p>	Homo sapiens

415 30698 G Protein-
Coupled
Receptor
Ls30698 AX068267

Homo sapiens

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416 30698 G Protein- Coupled Receptor Ls30698 CAC27252.1 Homo sapiens

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LIVVLVAVN TQPSIGSSK SQDVVIIMRI SKNVAILTPL LGLTWGFGIA TLIETSLTF
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QG

417 30875 G Protein- Coupled Receptor GPR87/GPR95 NM_023915 Homo sapiens

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419	31568	G Protein- Coupled Receptor RE2	NM_007369	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVVKPFGDS RMYSTIFTRV LSVCVWVIMA VLSLNNIILT NQPTEDNIH DCSKLKSPG VKWHTAVTV NSCLFVAVV ILIGCYIAIS RYIHKSSRQF ISQSSRRKH NQSRVWVAV FFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcatgct ctgccaccc cagccgagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatacgcca tcatgtgcat caccatttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttgctct cagcctgact ctgtccaact tctgtgctgc cgtgttggtg ctgccttttg tggtagcag cctcatcgc agggaatgga tcttgggtg agtgtggtgc aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgctg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc actgtgtctac atctggcttc actcgtcctc cggctgctg ccacccctgt ttggttggtc atccgtggag tttagcaggt tcaaatggat gtgtgtggct gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgct cctctcccc tttctggtca tgcgtgtgtg ctatggcttc atcttcccg tggccagggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggtg ctacagaggac cgggagggaag aactccagca cctccacctc ctcttcaggc agcaggagga atgccttca ggtgtgtgct tactcgcca accagtgcac agccctcacc accatctggt tggctcctcg tgccttcagt gtcacctggg gccctacat ggtgtgctc gccctgagg cctctgggg gaaaagctcc gtctccccga gctggagac ttgggccaca tggctgtcct ttgccagcgc tctctgccac ccctgatct atggactctg gaacaagaca gttcgcaaa aactactgg catgtgctt gggacccggt attatcggga accatttctg caacgacaga ggacttccag gctctcagc atttccaaac ggateacaga cctgggctg tccccacacc tcactgcgt catggcagg ggacagcccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgctt ataagcctc cactgtcgc gtttccctg tgttcgctt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggga tttccccagg tg	Homo sapiens
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Receptor
GPR49

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Homo
sapiens

P

NP_003658.1

G Protein-
Coupled
Receptor
GPR49

36534

422

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 PSNLSVFTSY LELSMNNISQ LLPNPLPSLR FLEELRLAGN ALTYIPKGA FGLYSLKVLV
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 FQHLPELRTL TLNGASQITE FPDLTGTANL ESLLTGAQI SSLPQTVCNQ LPNLQVLDLS
 YNLLEDLPF SVCQKLQKID LRHNEIYEIK VDTFQQLLSL RSLNLAWNKI AIIHNAFST
 LPSLIKLDLS SNLLSFPIT GLHGLTHLKL TGNHALQSLI SSENFPPELV IEMPYAYQCC
 AFGVCENAYK ISNQWNKGDN SSMDDLHRKD AGMFQAQDER DLEDFLLDFE EDLKALHSVQ
 CSPSPGPEKP CEHLIDGWL I RIGVWTIAVL ALTICNALVTS TVFRSPLYIS PIKLLIGVIA
 AVNMLTGVSS AVLAGVDAFT FGSFARHGAW WENGVCCHVI GFLSIFASES SVFLLTLAAL
 ERGESVKYSA KFETKAPFSS LKVIILLCAL LALTMAAVPL LGSKYKASP ICLPLPFGEF
 STMGYMVALI LNLSCFLMM TIATYTKLYC LDKGDLENIW DCSMKVHIAL LLFTNCILNC
 PVAFLSFSSL INLTFISPEV IKFILLVVVP LPACLNPLLY ILFNPHFKED LVSLRKQTYV
 WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PESSVPSPAY PVTESCHLSS
 VAFVPC

Homo
sapiens

A

NM_004736

Xenotropic
and
Polytropic
Retrovirus
Receptor
(XPR1)

37498

423

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424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p> ccccctccat aaggtaggct ttgctgattt ctggctggcg gatacagctga acagcctgtc agtatactg atggacctgg aatataatgat ctgcttctac agtttggagc tcaaatggga tgaagtaag ggcctgttgc caaataatc agaagaatca ggaatttgcc acaatatatac atatggtgtg cgggccattg ttacagtcat tcctgcttgg cttcgcttca tccagtgcct gcgcgatat cgagacacaa aaaggccctt cctcatatta gttaatgctg gcaagtactc cacaactttc ttcatgggtgg cgtttgcag cttttacagc atcacaaaag aacgaggtca ctcgacact atggtgttct ttacactgtg gattgtcttt tatatcatca gtctcctgcta tacctcatc tgggatctca agatggactg ggtctcttc gataagaatg ctggagagaa cactttcctc cgggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agagatgtg attctgcgtt ttgcttggac tatccaaatc tcatctacct ctacaacttt gtgcctcat tctggggaca tcattgtac tgtctttgcc ccaacttgag tttccggcg attgtgtgg aacttcttc ccctggagaa tgaacatctg aataactgtg gtgaattccg tgctgtgagg gacatctctg tggcccccct gaacgcagat gatacagctc tcctagaaca gatgatggac caggatgatg gggtacgaaa ccgccagaag aatcggtcat ggaagtacaa ccagagcata tccctgcgcc ggcctgcct cgtcttctcaa tccaaggctc gtgacactaa ggtattgata gaagacacag atgatgaagc taacacttga attttctgaa gtctagctta acatctttgg tttctact ctacaatcct ttctcgacc aacgcaacct ctagtacctt tccagccgaa aacagagaaa aacacataac acattttccg agcttctccg gatcggtacc tatggactcc aacaagctc actgtgtttc ttttcttttc tctgtgttta attttaattt tctattttca aacaagtat ttacttcatt tgccaatcag aggatgtttt aagaacacaa acatagtatc ttatggattg ttacacatac caaggacata gatacctatc aggatgaaga acaggcattg caaggacctt ctgatgggac ggtactgaga tctcggctt cctgctcagc ccggttttga atggttga aa ccggacattg gtttttaaat ttttgcagc tttatgtgga gaattttttt ctttcttca taccagcgc aaaggcactg gccgacttg caggaaaagt gcaactaaa gcagtacctt cattcatgaa gctacttttt aatttgatgt aacttttctt attttgggaa ggttgcgtgg gtgggtggga aatatgatgt atttgttaca catagttttc tcattattta tgaacttaa ccatacagaa tgatataact cctgtgcaat gaaggtgata acagtaaaag aaggcaggag aaaaaaaaaa MKEAEHLISAH ITPERKQYI QYAEFKDMLY SAQDQAPSVE VTDEDIVKRY FAKFEKFFQ P TCEKELAKIN TFYSEKLAEA QRREATLQNE IQSSLDAQKE STGVTTLRQR RKPVFHLSHE sapiens ERVQHRNIKD LKLAFFSEYL SLILLQNYQN INFTGFRKIL KKHDKILETS RGADWRVAHV EVAPFYTCCK INQLISETEA VVTNELEDGD RQKAMKRLRV PPLGAAQPAP AWTTFRVGLF CGIFVLNIT LVLAAVFKLE TDRSIWPLIR IYRGGFLLIE FLFLLGINTY GWRQAGVNHV LIFELNPRSN LSHQHLFEIA GFLGILWCLS LLAFFAPIS VIPTYVYPLA LYGFMVFFLI NPTKTFYKKS RFWLLKLLFR VFTAPFHKVG FADFWLADQL NSLSVILMDL EYMICFYSIE LKWDESKGLL PNNSEESGIC HKYTYGVRAI VQICIPAWLRF IQCLRRYRDT KRAFPHLVNA GKYSTTFMV AFAALYSTHK ERGHSDTMVE FYLWIVFYII SSCYTLIWDL KMDWGLFDKN AGENTFLREE IVYPOKAYYY CAIIEDVILR FAWTIQISIT STTLPHSGD IIATVEAPLE VFRFVWNFF RLENEHLNNC GEFRVARDIS VAPLNADDQT LLEQMDQDD GVRNRQKNRS WKYNQISLR RPRLASQSKA RDTKVLIEDT DDEANT </p>	Homo sapiens
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425	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	AX073578	agagatggca gtgagcgaga ggaggggggt cgcccgcggt cgcccgcggt agtgggggca A	Homo sapiens
				gaggctactt ctggtgctgc tgttggtggtg acatccagct gaacagcttc ggtttctaca ccaatggctc	
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426	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	CAC28410.1	MAVSERRGLG RGSPAEWGOR LLLVLLGGC SGRIHRLALT GEKRADIQLN SFGFYTNGSL P	Homo sapiens
				EVELSVLRIG LREAEEKSLI VGFSLSRVRS GRVRSYSTRD FQDCPLQKNS SSFLVLFLIN	
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				IRHLQDASGT DGKVAVNLAK LKLFERYHYM VICVYVFTRI IAILQVAVP FQWQWLYQLL	
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427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
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 PSSNEVETTS LNDVILSLP SNETEKTKIT IVKTFNASGV KPQRNICNLS SICNDSAFFR sapiens

[illegible]

430	45937	KIAA1624 Protein	AAK57695	<p> tggagtcctg tgtgacaaca tctggggtga tggaaagtat gaagaaagtc aagaagggtga ccaacggctc cgtggagccc caggcgaggt gggaagcgc cgtgtgacag agccgacctt gagatggca ctgtccaagg aaactgttaa cttattcata gtcctattgg acagcaggag cagtcctac agtgaactat tggcaccacc gacagtga caagggcaca tggctggagc acagtggcg ggaacactga tttgtactc tctttatgg aaacgatctg tggctgttta gaggcagctg gatcctcttt caggcgggaa tggaggggcg ggcacaggga ggaggagag aagagaaaag gaagaattca tttttaattt aggtttcttt ttttctctt catttcggag ctctaagggt tatgcagttg tgaccccatg tggggggaag ttagcaagg acggctggtg gagggggaag gaggtgctga ggtgtctgtc tgatgctta ggaatgtct actgaggacc ctgggactta agaagaaggg cggggagagt gccattgctt gtttgggaga caaaaatgaa cgaaaaacag tgacttttga aagcaaatgc aaacccagt ttaggatgta gcacctgccc cagattcct gccctcggct ttgccccaga ccttattcc agatgctgag agtgaccagg acagcagctc ctgaggccca gtggtcttct ttccaacag aaaagaaggc tgtgatgtcg ctgtcaggat catgcccgtg ggcacagcac aggtggtggg aggtggtttt ctgactgaga tgttgccctga tggatggaaa gaaatgtatt ttaagttca aaagcatta tctgtggcg ttgcttgag atccactccc tgacagccca gagcagcact gtctggcttc ccttcagtct tgtggtttg ttgtgttga tcagaaattt gggggaatg gaaagtttt ctcaaggagc agctggggc agaatagga gtatttaagc aaatacttaa gtccaagca atcatcccca ttaaaaagct tttctgtgag gctagtagga aaaaaaaa aaaaaa MAALAPVGP ASRGRLAAG LRLPLMLGL QLLAEPGLR VHHLALKDDV RHKVLNTEG P FFKDGVMVN VSSISNEPE DKDVTIGSL DRTKNDGFSS YLDEDVNYCI LKQSVSVTL LILDISREV RVKSPPEAGT QLPKIIIFSRD EKVLGQSQEP NVNPASAGNQ TQKTQDGKKS KRSTVDSKAM GEKSFSVHNN GGAVSFQFFF NISTDDQEG YSLYFHKCLG KELPSDKFTF SLDIEITEKN PDSYLSAGEI PLPKLYISMA FFFFLSGTIW IHILKRRND VFKIHLWMAA LPFTKSLSV FHAIDYHIS SQGFPIEGWA VVYIITHLLK GALLFITIAL IGTGWAFIGKH ILSDKDKKIF MIVIPLOVLA NVAYIIEST EGTTEYGLW KDSLELDLL CCGAILFPVV WSIRHLQEAS ATDGKAAIL AKLFRHY VLIVCYIYFT RIIFLLKLA VPFQWKWLYQ LLDETALVF FVLTYKFRP ASDNPYLQLS QEEEDLEMS VVTTSGVMES MKKVKKVTNG SVEPQGEWEG AV </p>	Homo sapiens
431	50847	Neurotensin Receptor type 2	NM_012344	<p> gagtgaagg gagggagcgc cggccgcggg agcgggatgg aaaccagcag cccgcggccc A ccgcggcca gctccaaccc ggggctgagc ctggagcgcg ggtgggcgt ggacactcgc ctctgggcca agtgctgtt caccgcgtc tacgactca tctggcgct ggccgcggcg ggcaatgcgc tgtccgtgca cgtggtgctg aaggcgcggg cggggcgccg gggcgccctg cgccaccacg tgctcagct ggctcgcgc ggcctgctgc tgcctgtgtt cggcgtgccc gtggagctct acagctcgt gtggttccac taccctggg tcttcggcga cctgggctgc cgcggtact acttcgtgca cagctgtgc gcctacgcca cgtgctgag cgtggcaggc ctgagcgccg agcgtgcct agcgtgtgc cagccctgc gtgccccag cctgctgacg ccacgcggga cccggtggct ggtgggctc tctgtggcgc cctcgcctg cctcgcctg cccatggccg tcatcatggg gcagaagcac gaactcaga cggcggacgg ggagccggag cccgctcgc gagtgtgac ggtgctggtg agccgaccg cgtccaaat cttatccag gtgaatgtgc tgggtcctt cgtgctcccc ttggcactaa ctgcttctt gaatggggtc </p>	Homo sapiens

Accession	Gene	Protein	NP	Species	Sequence
432	50847	Neurotensin Receptor type 2	NP_036476.1	Homo sapiens	<p>acagttagcc actgtgtggc ccttgtctcc caagtgcctt ccattttacc cccggggcagc</p> <p>tccaccccca gccgcctgga gctgctgagt gaggagggtc tcttcagctt catcgtagtg</p> <p>aagaagacct ttatccaggg aggccagggtc agcctggtga gacataaaga cgtgcgcccgg</p> <p>atccgcagcc tccagcgagc cgtccaggtt ctcagagcca tctgtgtcat gtagtgcac</p> <p>tgctgtgtgc cgtaccatgc cgcagagctc atgtacatgc agtaccatga tgacgcgtgg</p> <p>actgacccac tgtacaattt ctaccactac ttctacatgg tgaccaaac acittttctac</p> <p>gtcagctcag ctgtgactcc tctttctctc aacgcctgt cctcctcctt caaaaaactc</p> <p>ttcctggaag ccgtcagctc cctgtgtgga gaggaccacc ccatgaagcg gttacccccg</p> <p>aagccccaga gtccacccct aatggatata gcttcagggt ttggggatcc ccagaaaacc</p> <p>cggacctgaa tgtaatgcaa gaatgaacag acaagcaaaa atgaccagct gcttagtcac</p> <p>ctggcaaacg aggtgagcaa cctcatcact aatcattcaa gcttcgcagc cagggcgact</p> <p>ttatatcaac cctgctctgc tgagaacctt caagcgagc gaagccacgt gaccctcctt</p> <p>agcctcaggg tccctcgtct gtgtagtggg gataaagaac agaccccatc tcttagtggt</p> <p>gctgagact aaagtgtcta gcacagaacc tgggtgcgtag tagatgctca ataaattttt</p> <p>gctggcacg</p>
433	53440	G Protein-Coupled Receptor LS53440	AX107037	Homo sapiens	<p>metssprprp pssnpglsld arlgvdtrlm akvltfalya liwalgaagn alsvhvvlka p</p> <p>ragragnarlrh hvlsalagl llllvgpve lysefwfhyh wvfldlgrg yyfwhelcay</p> <p>atvlsvagls aerclavcqp lrarslltpr rtrwlvslw aaslgialpm avimgqkhel</p> <p>etadgpepa srvcvtlvlsr talqvfiovn vlvsfvlpla ltaflngvtv shllalcsqv</p> <p>pststpgsst psrlellsee gllsfivmkk tfiqggqvsl vrhkdvrrir slqrsqvqlr</p> <p>aiwvmvicw lpyharrlmy cyvpddawtd plnyfhyfy mvtntlfyvs savtpllyna</p> <p>vssfrklfl eavsslcgeh hpmkrlppkp qsptlmdtas gfcdppetr</p> <p>cagagaggtt gtatttcagt gcagcctgcc agactcttc ttgaggaga ctggacaaaag a</p> <p>ggggtcacac attcctcca tacggttag tacctacctg cctgtgtctg gtcacagttc</p> <p>agcttcttca tgatggtgga tcccaatggc aatgaatcca gtgtacata cttcatccta</p> <p>ataggcctcc ctggtttaga agaggctcag ttctggttgg ccttcccat gtgtccctc</p> <p>tacctattg ctgtgctagg taacttgaca atcatctaca ttgtgcggac tgagcacagc</p> <p>ctgcatgagc ccatgtatat atttcttgc atgtcttcag gcatcgacat cctcatctcc</p> <p>acctcatcca tgcacaaat gctggccatc ttctgtttca attccactac catccagttt</p> <p>gagctttgtc tgctacagat ttttgccatc cactccttat ctggcatgga atccacagtg</p> <p>ctgctggcca tggcctttga ccgctatgtg gccactgtc accactgcg ccattgccaca</p> <p>gtacttacgt tgcctcgtgt caccaaaatt ggtgtggctg ctgtgtgtgc gggggctgca</p> <p>ctgatggcac cccctcctgt cttcatcaag cagctgccct tctgcgcctc caatacctt</p> <p>tccattctct actgcctaca ccaagatgtc atgaagctgg cctgtgatga tatccgggtc</p> <p>aatgtcgtct atggccttat cgtcatcact tccgccattg gccctggactc acttctcact</p> <p>tcttctctcat atctgcttat tcttaagact gtgtgtgggt tgacacgtga agccccggc</p> <p>aaggcatttg gcactgtcgt tctcatgtg tgtgtgtgt tcatattcta tgtaccttc</p> <p>atgggattgt ccaatgtgca tgccttttag agcggtcgtg actctccgt gccgtcact</p> <p>ttggccaata tctatctgct ggttcctct gtgctcaac caattgtcta tggagtgaag</p> <p>acaaaggaga ttcgacagcg catccttcga cttttccatg tggccacaca cgttccagag</p> <p>ccttagtgt cagtatcaa acttcttttc cattcagagt cctctgattc agattttat</p>

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 MMVDPNNGNES SATYFILIGL PGLEEAQFWL AFPLCSLYLI AVLGNTLIY IVRTEHSLHE P
 PMYIFLCMLS GIDILISTSS MPKMLAIFWF NSTTIQFDAC LLQMFALHSL SGMESTVLLA
 MAFDRYVAIC HPLRHATVLT LPRVTKIGVA AVVRGAALMA PLPVFIKQLP FCRSNILSHS
 YCLHQDVNKL ACDDIRNVV YGLIVIISAI GLDSLLISFS YLLILKTVLG LTREAQAKAF
 GTCVSHVCAV FIFYVPFGL SMVHRESKRR DSPLPVILAN IYLLVPPVLN PIVYGVKTKE
 IRQRLRLFH VATHASEP

434

53440

 G Protein-
 Coupled
 Receptor
 LS53440

 Homo
 sapiens

435	54053	Gaba (b) Receptor 2	NM_005458	atggtcttccc cggcgagggtc cgggcagcca gggcgggcgc cggcgccgcc accgcgcgcc A gcgcgctgc tactgtact gctgtgtccg ctgtgtctgc ctctggcgcc cggggcctgg sapiens ggctgggcgc ggggcgcccc cgggcgccc cccagcagcc cgcgcctctc catcatgggc ctcatgccgc tcaccaagga ggtggccaag ggcagcatcg ggcgcggtgt gctccccgcc gtggaactgg ccctcgagca gtcgcgaac gagtcactcc tggcccccctt ctctctgac ctcgggctct atgacacgga gtgcgaacac gcaaaaggggt tgaagccctt ctacgatgca ataaaatagc ggcgaacca ctgtgatgtg ttggaggcg tctgtccatc cgtcacatcc atcattgcag agtccctcca agcgtggaat ttgtgtcagc ttctttttgc tgcacccagc cctgttctag ccgataagaa aaaataccct tatctcttc gaccgtccc atcagacaat gcgtgtaatc cagcattct gaagtgtctc aagcactacc agtggaaagc cgtgggcacg ctgacgcaag acgttcagag gtctctctgag gtgcggaatg acctgactgg agttctgtat ggcaggaca ttgagattc agacaccgag agcttctcca acgatccctg taccagtgtc aaaaagctga aggggaatga tgtgcggatc atccttgcc agtttgacca gaatatggca gcaaaagtgt tctgtgtgc atacgaggag aacatgtatg tagtaaaata tcagtggatc attccgggct ggtacgagcc ttcttggtgg gacgaggtgc acacggaagc caactcatcc cgctgcctcc ggaagaatct gcttgctgcc atggagggt acattggcgt ggatttcgag ccctgagct ccaagcagat caagaccatc tcaggaaaga ctccacagca gtatgagaga gagtaaca acaagcgttc aggcgtgggg ccacgcaagt tccacgggtc cgcctacgat ggcatctggg tcatcgccaa gacactgcag agggccatgg agacactgca tgcacagcgc cggcaccagc ggatccagga cttaactac acggaccaca cgcctgggcag gatcatcctc aatgccatga acgagaccaa ctctctcggg gtccacgggtc aagtgtgtatt ccggaatggg gagagaatgg ggaccattaa atttactcaa ttcaagaca gcaggggaggt gaaggtggga gagtacaacg ctgtggccga cacactggag accatcatcg acaccatcag gtcccaagga tccgaaccac caaaagacaa gaccatcatc ctggagcagc tgcggaagat ctccctacct ctctacagca tctctctctg cctcaccatc ctcggtatga tcatggccag tgcctttctc ttcttcaaca tcaagaaccg gaatcagaag ctcataaaga tgtcagatcc atacatgaac aaccttatca tcttggagg gatgctctcc tatgtctcca tattctctt tggccttgat ggatcccttg tctctgaaaa gacctttgaa acactttgca cgcacaggac ctggattctc accgtgggct acacgaccgc ttttggggcc atgtttgcaa agacctggag agtccacgcc atcttcaaaa atgtgaaaat gaagaagaag atcatcaagg accagaaact gcttgtgatc gtgggggggca tgcgtgtgat cgacctgtgt atcctgatct gctggcaggc tgtggacccc ctgcgaagga cagtggagaa gtacagcatg gagccggacc cagcaggagc ggatatctcc atccgcctc tcctggagca ctgtgagaac acctatga ccatctgggt tggcatcgtc tatgcctaca agggacttct catgtgttc ggtgtttct tagcttggga gacccgcaac gtcagcatcc cgcactcaa cgacagcaag tacatcgga tgaagtgtcta caacgtgggg atcatgtgca tcacgtgggc cgtgtctcc ttctgacct gggaccagcc caatgtgcag ttctgcatcg tggctctggt catcatcttc tgcagacca tccacctctg cctggtattc gtgccgaagc tcataccct gagaacaaac ccagatgcag caacgagaa caggcgattc cagttcactc agaatacagaa gaaagaagat tctaaaacgt ccacctcgtt caccagtgtg aaccagaacca gcacatccc cctggagggc ctacagtcat aaaaacctcg cctgcgaatg aagatcacag agctggataa agacttggaa gaggtcacca tgcagctgca ggacacacca
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436	54053	Gaba (b) Receptor 2	NP_005449.1	<p>gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaaacttca ctgagagcac agatggagga aagccattt taaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag cctctcgaa catgcaaaaga tccatataga gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cacgcctacc tccatccat cggaggcgtg gacgccagct gtgtcagccc ctgcgtcagc ccaccgccca gcccccgcc cagacatgtg ccaccctcct tccgagtcac ggtctcgggc ctgtaa</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>MASPRRSGQP GRPPPPPPPP ARLLLLLLLP LLLPLAPGAW GWARGAPRPP PSSPPLSIMG P IMPLTKEVAK GSIGRGLPA VELAIEQIRN ESLLRPYFLD LRLYDTECDN AKGLKAFYDA IKYGNHLMV FGVCPSPVTS IIAESLQGNV LVQLSFAATT PVLADKKKYP YFFRTVPSDN AVNPAILKLL KHYQWKRVTG LTQDVQRFSE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGNDVRI ILGQFDQDMA AKVECCAYEE NMYGSKYQWI IPGWYEPSWW EQVHTEANSS RCLRKNLLAA MEGYIGVDFE PLSSKQIKTI SGKTPQQYER EYNNKRSGVG PSKFHGYAYD GIWVIAKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRILL NAMNETNFFG VTGQVVFRRNG ERMGTIKFTQ FQDSREVKVG EYNAVADILE IINDTIRFQG SEPKDKTII LEQLRKISLP LYSILSALTI LGMINASAFI FENIKNRNQK LKIMSSPYMN NLIILGMLS YASIFLFGLD GSFVSEKTFE TLCTVTRWIL TVGYTTAFGA MFAKTWRVHA IEFKNVKKKK IIKDQKLLVI VGMLLIDLIC ILICQAVDP LRRTVEKYSM EPDPAGRDIS IRPLLEHCEN THMTIWLGV YAYKGLMLF GCFLAWETRN VSIPALNDSK YIGMSVYNVG IMCIIGAASV FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLRTN PDAATQNRRE QFTQNKQKED SKTSTSSTSV NQASTSRLEG LQSENHRLRM KITELDKDLE EVTMLQDTP EKTYYIKQNH YQELNDIILN GNFTESDGG KAILKNHLDQ NPQLQWNTE PSRTCKDPIE DINSPEHIQR RLSLQLPLIH HAYLPSIGGV DASCVSFVCS PTASPRHRHV PPSFRVMVSG L</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>gtgaaattta aactccagtc ctgtgtcgaa aatgctaatt gcactaacac agaaggaggt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gtttatcact aatgatggaa cgtctgtgat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattaataa aactttaaca aaaatcagat ccataaaaga acctgtggct ttgctacaag agtctctatg aaattctgtg acagatcttt caccacacaga tataattaca tatatagaaa tattagctga atcatcttca ttactaggtt acaagaacaa cactatctca gccaaggaca cctttcttaa ctcaactctt actgaatttg taaaaccgt gaataatttt gttcaagggt atacatttgt agtttgggac agtttatctg tgaatcctag gagaacacat cttcaaaaac tcatgcacac tgttgaacaa gctactttta ggatattcca gactttccaa aagaccacag agtttgatac aaattcaacg gatatagtct tcaaaagtttt cttttttgat tcatataaca tgaacacatat tcatcctcat atgaatatgg atggagacta cataaatata tttccaaaaga gaaaagctgc atatgattca aatggcaatg ttgcaagttgc atttttatat tataagagta ttggtccttt gctttcatca tctgacaaact tcttatgaa acctcaaaat tatgataatt ctgaagagga gaaaagagtc atatcttcag taatttcagt ctcaatgagc tcaaacccac ccacattata tgaacttgaa aaataaacat ttacattaaag tcatcgaaag gtcacagata ggtataggag tctatgtgca ttttgggaatt actcacctga taccatgaat ggcagctgggt cttcagagggg ctgtgagctg acatactcaa atgagaccca cacctcatgc cgctgtaatc acctgacaca ttttgcaatt ttgatgtcct ctggtccttc cattggtatt</p>	Homo sapiens

438	55728	ETL protein	NP_071442.1	<p>aaagattata atattcttac aaggatcact caactaggaa taattatttc actgatttgt cttgccatat gcatcttttac ctctctgttc ttcagtgaaa ttcaagcac caggacaaca attcacaaaa atctttgctg tagcctatctt ctgtctgaac ttgtttttct tgttgggatac aatacaaaaa ctaataagct ctctctgttc atcattgccc gactgctaca ctacttcttt ttagctgctt ttgcatggat gtgcattgaa ggcatacatc tctatctcat tgttgggggt gtcatctaca acaagggtatt ttgacacaag aattttata tctttggcta tctaaagcca gccgtggtag ttggattttc ggcagcacta ggatacctta attatggcac aacaaaagta tgttggctta gcaccgaaaa caactttatt tggagtttta taggaccagc atgcctaatac atctctgta atctctggc ttttggagtc atcatataca aagtttttcg tcacactgca gggtgaaac cagaagttag ttgctttgag aacataaggt ctgtgcaag aggagccctc gctcttctgt tcttctcgg caccacctgg atctttgggg ttctccatgt tgtgcaagca tcagtggta cagcttacct ctccacagtc agcaatgctt tccaggggat gttcattttt ttattcctgt gtgttttatac tagaaagatt caagaagaat attacagatt gttcaaaaat gtcccctgtt gttttggatg tttaaggtaa acatagagaa tgggtggataa ttacaactgc acaaaaataa aaattccaag ctgtggatga ccaatgtata aaatgactc atcaaatat ccaattatta actactagac aaaaagtatt ttaaatcagt ttttctgttt atgctatagg aactgtagat aataaggtaa aattatgtat catatagata tactatgttt ttctatgtga aatagttctg tcaaaaatag tattgcagat atttgaaaag taattgggtt ctcaggagtg atatcactgc acccaaggaa agattttctt tctaacacga gaagtatatg aatgtccga aggaaaccac tggcttgata tttctgtgac tcgtgttgcc ttgaaacta gtccctacc acctcggtaa tgagctccat tacagaaagt ggaacataag agaatgaagg ggcagaatat caaacagtga aaagggaatg ataagatgta tttgaaatga actgtttttt ctgtagacta gctgagaaat tgtgacata aaataaagaa ttgaagaac acattttacc attttgtgaa ttgttctgaa cttaaatgtc cactaaaaa acttagactt ctgtttgcta aatctgtttc tttttcta atcttaaaa</p>	MCVPGFRSSS NQDRFTNDG TVCIENVNAN CHLDNVCIAA NINKTITKIR SIKEPVALLQ P EYRNSVTDL SPTDIITYIE ILAESSLLG YKNNTISAKD TLSNSTLTFE VKTVNNFVQR DTFVWDKLS VNRHRLTK LMHTVEQATL RISQSFQKTT EFDNSTDIA LKVFFFDSYN MKHIHPHNM DGDYINIFPK RKAAYDSNGN VAVAFLYYKS IGPLLSSSDN FLLKPQNYDN SEEEERVISS VISVSMSSNP PTLYELEKIT FTLSHRKVTID RYRSLCAFWN YSPDTMNGSW SSEGECELTYS NETHTSRCRN HLTFFAILMS SGPSIGIKDY NILTRITQLG IISLICLAI CIFTWFFSE IQSTRTHKH NLCCSLFLAE LVFLVGINTN TNKLFCSIIA GLLHYFFFLAA FAWMCIEGIIH LYLIIVGVYIY NKGFHKNFY IFGYLSPAVV VGFSALGYR YYGTTKVCWL STENNFWSF IGPACLIILV NLLAFGVIIY KVERHTAGLK PEVSCFENIR SCARGALALL FLIGTTWIFG VLHVHVASV TAYLFTVSNA FQGMFIFLFL CVLSRKIQEE YYRLFKNVPC CFGCLR	Homo sapiens
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440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	<p>acggtcaaca actacttcct cttaagcctg gcctgtgccc atctgattat cggggtcatt tcaatgaatc tgttacgac ctacatcatc atgaatcgat gggccttagg gaactgggcc tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaactctctg gtcatcagct ttgacagata cttttccatc acgaggccgc tcaactgaccg agccaaacga acaacaaaga gagccggtgt gatgatcgtt ctggcttggg tcatctcctt tgcctttgg gtcctcgcca tctgttctg gcaatacttt gtggaaaga gaactgtgcc tccgggagag tgcttcattc agttctctag tgagccacc attacttttg gcacagccat cgtgctttt tatatgctg tcaccattat gactatttta tactggagga tctataagga aactgaaaa cgtaccaaag agcttgctg cctgcaagcc tctgggacag aggcagagac agaaaactt gtccacccca cgggcagttc tcgaagctgc agcagttacg aacttcaaca gcaagcatg aaacgctcca acaggagga gtagggcgc tgccacttct ggttcacaac caagagctgg aaacccagct ccgagcagat ggaccaagac cacagcagca gtgacagtgt gaacacaat gatgctgctg cctccctgga gaactcgc tctccgacg aggaggacat tggctccgag acgagagcca tctactccat cgtgctcaag cttccgggtc acagacccat cctcaactc accaagtac cctcatcgga caacctgcag gtgcctgag aggagctggg gatggtggac ttggagagga aagccgacaa gctgcaggcc cagaagagcg tggacgatgg aggcagttt ccaaaaagct tctccaagct tcccatccag cttagagtcag ccgtggacac agctaaagac tctgacgtca actcctcagt gggtaagagc acggccactc tacctctgtc cttcaaggaa gccactctg ccaagaggtt tgctctgaag accagaagtc agatcaactaa gcggaagag atgtccctgg tcaagagaa gaaagcgcc cagacccctca gtgcgatctt gcttgcctc atcatcactt ggaccccata caacatcatg gttctggtga acacctttg tgacagctgc ataccacaaa ccttttgaa tctgggctac tggctgtgct acatcaacag caccgtgaac ccggtgtgct atgctctgtg caacaaaaa ttcagaaacca ctttcaagat gctgctgctg tgccagtgtg acaaaaaaaa gaggcgcaag cagcagtagc agcagagaca gtcggtcatt tttcacaagc gcgcacccga gcaggccttg tag</p>	Homo sapiens
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444	73584	Cadherin EGF NP_055061.1 LAG Seven- Pass G-Type Receptor 1 (CELSRI/Flam ingo)	cagtgccgac cctgtgctgg cagccccggc agtcctttgc aaaggcacc cttgtcttaa aatcacttcg ctatgtggga aagtgaggga tactttata tatttgtatg ggactctgag gaggtgcaac ctgtatatat attgcattcg tctgactttt gtatccccga gagatccatg caatgatctc ttgtgtctct ctctgtcaag attgcacagt tgtacttgaa tctggcatgt gttgacgaaa ctggtgcccc agcagatcaa aggtgggaaa tacgtcagca gtggggctaa aaccaagcg ctagaagccc tacagtgcc ttcgccagg aagtggagt ggtgtggcc ctccccgcg gccctctggg tccccagtgt tctgtgtgtg tgcgtttgtc ctctgtgccc atctgccccg gctgtgtgaa ttcaagacag ggcagtgcag cactaggcag gttgaggag ccctgctgag gtcactgtgg ggcacgggtt ccacacggct gtcatttttc acctggtcat tctgtgacca ccacccctc cctcacgc ctcccagggt gccggggagc tgcagggtgg gatggctttg tcttttgctc ctgtctcccg tgggacctgg gaccttaaa cgttgcaggt tctgtatttg gacagaggtg tggggccttc caggccgtta catacctcct gccaattctc taactctctg agactgcgag gatctccagg cagggttctc cctctggag tctgaccaat tacttcattt tgcctcaaat ggccaaattg gcagagggac aaagccacag ccacactctt caacggttac caactgttt ttggaaattc acaccaaggt cgggcccact gcaggcagct ggcacagcgt gcccagaggg gctgtggaac ggggtcccgga actgtcagac atgtttgatt ttagcgtttc cttgttctt caaatcaggt gcccaataa gtgatcagca cagctgcttc caaataggag aaaccataaa atagatgaa aatcaagtaa aatgcaaga tgtccacact gtttaaact tgacctgat gaaaatgta gcactgttag cagatgccta tgggagagga aaagcgtatc tgaataatgt ccaggacagg aggatgaaa gagatccacag agtccctaca cctgaatgaa ttatacatgt gccttaccag gtgagtggtc ttctgaagat aaaaaactct agtcctctta aacgtttgct cctggcggtt cctaaagtac aaaaggtttt taagtcttcg aacagtcctc ttctatgact ttaacaggat ttgccccct gaggtgtaat tttttgttc tatttttttc cactactcc acagccaaca tcacagaggtg taatttttaa tttgatcaga actgttacca aaaaaaact gtcagtttta ttgagatggg aaaaatgtaa acctattttt attacttaag actttatggg agagattaga cactggaggt ttttaacaga acgtgtattt attaatgtc aaacactgg aattacaaat gagaagagtc tacaataat taagattttt gaatttgtac ttctgctgtg ctggtttttc tccacaaaaca ccccccccc tccccatgcc caggttgccc gtggaaggga cgttttacgg acgtgcagct gagctgtccg tgtccccatgc tccctcagcc agtggaacgt gccggaactt tttgtccatt cctcagtagg cctgccacag cctagatggg cagtttttgt ctttcaccaa atttgaggac ttttttttt tgccattatt tcttcagttt tctttctgtg cactgatctt tctcctctcc tctgtgact ccagtgactc agacgttaga cctcttgatg ttttccact ggtccctgag gctctgttc MAPPPPPVLP VLLLLAAAA LPAMGLRAA WEPVPVGGTR AFALRGCTY AVGAACTPRA P PRELLDVGRD GRLAGRRVS GAGRPLPLQV RLVARSAFTA LSRRLRARTH LPGCGARARL sapiens CGTGARLCGA LCFVPVGGCA AAQHSALAAP TTLPACRCPP RPRPCPGRP ICLPPGGSVR LRLCALRRA AGAVRVGLAL EAATAGTPSA SPSPSPPLPP NLPEARAGPA RRARRGTSGR GSLKFPMPNY QVALFENEPA GTLLILQHAH YTIEGEERV SYMEGLFDE RSRGYFRIDS ATGAVSTDSV LDRETKETHV LRKAVDYST PPSATTYIT VLVKDTNDHS PVFEQSEYRE RVRENLEVGY EVLTIRASDR DSPINANLRY RVLGGAWDVF QLNESGVVS TRAVLDREEA AEYQLLVEAN DQGRNPGPLS ATATYIEVE DENDNYPQFS EQNYVVQVPE DVLNLTAVLR
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445	74514	5-HT5A Receptor	NM_024012	<p>LTEQTLKGRL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPGRD HLNQVAMNVR</p> <p>TGSAQADGSD SEKP</p> <p>atggatttac cagtgaaacct aacctcctttt tccctctcca cccctctccc ttggagacc A</p> <p>aaccacagcc tcggcaaga cgacctgcgc ccagctcgc cctgctctc ggtcttcgga</p> <p>gtgcttattc tcaccttgtt gggctttctg gtggcgga cgttcgcctg gaacctgctg</p> <p>gtgctggcga ccacctccg tctacgcacc tccaccgcg tggccacaa cctggtggca</p> <p>tccatggccg tctcgatgt cctggtggcc cgtggtgca tggcctgag cctggtgcat</p> <p>gagctgtccg ggcgcgcgtg ccagctaggt cggaggtgt gccagctttg gategcgtgc</p> <p>gacgtgtttt gctgcacggc cagcatctgg aacgtgacg ccatagcctt ggacgcctac</p> <p>tggctccatca cgcgccacat ggaatacacg ctccgcacc gcaagtgcgt ctccaacgtc</p> <p>atgatcgccg tcaacctgggc actctcgcgt gtcatctctc tggccccgct gctttttggc</p> <p>tggggagaga cgtactctga gggcagcgag gagtgcagg taagccgcga gccttccctac</p> <p>gccgtgttct ccaccgtagg cgccttctac ctgccgtct gtgtggtgt cttcgtgtac</p> <p>tggagatct acaaggctgc caagttccgc gtgggctcca ggaagaccaa tagcgtctca</p> <p>cccatatccg aagctgtgga ggtgaaggac tctgccaaac agccccagat ggtgttcacg</p> <p>gtccgccaag ccacggtcac ctccagcca gaagcgga cgtggcgga gcagaaggag</p> <p>cagcggccg cctcatggt gggcatctc atggcggtg tgcgtcgtg acatccccg catctggaaa</p> <p>ttctttctca cggagctcat cagtcctcgc tctctctta acccctgat ctatacggct</p> <p>agcatcttcc tgtggcttgg cgccttcaag aactctttt ctaggcaaca ctga</p> <p>ttcaacaaga actacaacag cgccttcaag aactctttt ctaggcaaca ctga</p>	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1	<p>VLATILVRT FHRVPHNLVA SMAVSDVLA ALVMPLSLVH ELSGRRWQLG RRLCQLWIAC</p> <p>DVLCCTASIW NVTAIALDRY WSITRHMET LRTRKCVSNV MIALTWALSA VISLAPLFG</p> <p>WGETYSEGSE ECQVSREPSY AVFTVGAFY LPCLVLFVY WKIYKAAKER VGSRTKNSVS</p> <p>PISEAVEVKD SAKQPMVFT VRHATVTFQ EGDTRWQKE QRAALMVGIL IGVFVLCWIP</p> <p>FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFFNPLIYTA FNKNYNSAFK NFFSRQH</p> <p>gtaatgcaga gataataaaa ctctctaggt ccataagttc tataataatt taataaccta A</p> <p>aacatgggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gttagatttt attgctttga tgagtggctt taaatatgaa aagtcttgcc</p> <p>tgtgaaggcc aatccttttc ccgtggactg ggtatctatg aaatacagaa atgtgcccag</p> <p>gggttcatct ccctaataac catcattcac atttctaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactgggt</p> <p>cagtggagtt ggttgcaacc tgatgctaa ggtgtcaaa tggtctcggc ctctgttccc</p> <p>agccagtaag taattccctg gcctcgggc ataccctta atcttggtca cgtgattatg</p> <p>acaggcagag agcacagtaa ataacactat atattaaga aacccaaagc atatgtatca</p> <p>atggatatata cccaacagca tcttaggaat ggagagttctg tagcaagggc ctccaatgtg</p> <p>aaggtaaca cagtactgt gatgcgtga ttccattttt gtaaacatg atctctgggtg</p> <p>gtcattttta tcttctaac ttattgaaa agtctcctgt tttgggggccc cgccccgtgt</p> <p>cacagccaga ctgactcagt tcccctggga ggtcccgctc gagccgctcc tcccctccc</p> <p>tctgcccgc cccagccctc gcccacccct cggcgccgc acatctgct gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgcgggat ccagccaggt gggagccccg cagatgaggt</p>	Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060		Homo sapiens

448 81765 Thromboxane NP_001051.1 MWPNSSSLGP CFRPTNITL ERLIASPWF TGTIVSQHA ALFEWHAVDP ATVLGLWAAA LALGILLPLG VGRYTVQYPG Homo sapiens
A2 Receptor SSFLTFLCGL VLTDFLGLV PAVASQRRW SMLGGLSVGL SFLINTVSVA TLCHVYHQE AAQQRPRDSE
VEMMAQLLGI MVVASVCWLP LLVFIAQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN
QILDPTVYIL FRAVLRLQ PRLSTRPRSL SLQPLTQRS GLQ

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VEMMAQLLGI MVVASVCWLP LLVFIAQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN
QILDPTVYIL FRAVLRLQ PRLSTRPRSL SLQPLTQRS GLQ

449	98519	Chemokine (C motif) Receptor 1 (CCXCR1)	Chemokine (C motif) Receptor 1 (CCXCR1)	atggagtcct caggcaaccc agagagcacc aggtctttgt accctgcca actatgacct tcatgagccag A	ccgtgtgaga accaggcctg ggtctttgt accctgcca ccactgtcct gtactgacct	gtgtttctcc tcagcttagt gggcaacagc ctggtctctg ggtcctggt gaagtatgag	agcctggagt ccctcaccac catcttcac ctcaacctgt gctcctcaga cctggtgttc	gctgtctgtg tgctgtgtg gatctccca taccactggg gctgggtgct gggagacttc	ctctgcaaac tctcaatat gatctctcc atagcctct acagcagcat ctctctctg	accatcatga ccatcaccg ctacctgtg ctacctgtg gctgtgacct cctctccac cctgcgctc	cccaacctcc gctgcgggt gctgtgacct atggtgtgt ggttagccag cctcctgtcc	tccatcctcg acaccatctt ccacaagtg ctctctctg gctgtgatta tccgaactc	acgtgttacc tcaactcctg ctaccagcac aactctctt tctgtgtgt cctgggatt	atcctgttct gctacgtgga gatcctcagg accctgttcc gctcagctc caagcggcg	caccgacagg tcaagctcat ctctgacct ggtgtgacct actcctcag ctggggtccc	tacaacttca cctgtttct gcagacgtg ttctggacct agatcatcag gagctgcgag	gccaaacagc agctagaata cgccctgtc atctgcccga accctgacct ctcccactgc	tgctttaacc cgtgtctcta tgtctctgt ggggtcaagt tccgcacaca cctgaaacat	gtctccggc agttctggt ctgcccgtg caggcaccca gccagacct gatccccac	tccctgtgt cctctgcta tgaggcgcc tctctact ga	450	98519	Chemokine (C motif) Receptor 1 (CCXCR1)	Chemokine (C motif) Receptor 1 (CCXCR1)	MESSGNPEST TFFYDLSQ PCENQWVFA TLATVLYCL VFLSLVGN LVLWLKYE P	SLESNTNIFI LNCLSLDF ACLLPWISP YHWGVLGDF LCKLNMIFS ISLYSSIFFL	TIMTHRYLS VSPSLRLV PTLRCRLVT MAVVASILS SILDIFHKV LSSGCDYSEL	TWYITSVYQH NLFFLLSGL ILFCYVEILR TLFRRSRKR HRTVKLIFAI VWAYFLSWGP	YNFTLFQTL FRTQIIRSC AKQLEYALL ICRNLAFSHC CFNPVLYFV GVKFRTHLKH	VLRQWFCRL QAPSPASIPH SPGAFAYEGA SFY	gcatgagcga tgatgctct agtctgtcat catccagagc ggcagggcag ctgggggtccg A	gactgagcga tggaggaggg gcgctgtcg gcacccggca ggttatctgt tcttgggacct	ctttgtcac atattgtca tctgtgagct gagccctga ctcaactagt attttgggg	agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc	cccaatgcca cctcgctcca tgtgctcac tcacaggaaa gaaacagcac ctctctccag	gagggtcttc aggatctcat ccacacagcc accttggta cctgtacttt tctactggcg	gtcatcttct gctgggttc ctatggcaac tcatgtgtct tctgtcctt ctctgatcca	gcttcagga aattcagaac caactttgat tcatgatcc tgaacctgtc ctctgtgac	ctctcatatt gtggagttag agccccatg ttcacctttg tgtattctt cagctcagcc	agtagtatcc cggatgcttt ctgcttcat tccatctca ccaattcagg ctctcatc	atgtctctga agacagtggc agtgatcgcc ctgcacccgg tccggatggt gttgggaaa	cagctaatc gcacggctc ctctccctgc accgtactcc tcacctggt tctctgggc	accagtttca ccttgccac ctgggtacc ttgaaaacca gcaagtccca cctctgtctt	cccatgtcca gtctgattg ggtctctgt tcttatcata tgattgtca gacctgcgg	tccaccttct gtgtgtctgt ggtctctgt tcttatcata tgattgtca gacctgcgg	aagaacgctc aagtcagaaa gtgccccct gtaatacacag tcatgtctc cagaccacag	ccttcatagg ggttccctgt gcaggagggt ggagatccca tccagtgtgc catgccgct	ctgtatagga accagaatta caacaaactg cagcacgttc agaccgttg atataccaa	451	130108	G Protein-Coupled Receptor GPR75	G Protein-Coupled Receptor GPR75	gcatgagcga tgatgctct agtctgtcat catccagagc ggcagggcag ctgggggtccg A	gactgagcga tggaggaggg gcgctgtcg gcacccggca ggttatctgt tcttgggacct	ctttgtcac atattgtca tctgtgagct gagccctga ctcaactagt attttgggg	agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc	cccaatgcca cctcgctcca tgtgctcac tcacaggaaa gaaacagcac ctctctccag	gagggtcttc aggatctcat ccacacagcc accttggta cctgtacttt tctactggcg	gtcatcttct gctgggttc ctatggcaac tcatgtgtct tctgtcctt ctctgatcca	gcttcagga aattcagaac caactttgat tcatgatcc tgaacctgtc ctctgtgac	ctctcatatt gtggagttag agccccatg ttcacctttg tgtattctt cagctcagcc	agtagtatcc cggatgcttt ctgcttcat tccatctca ccaattcagg ctctcatc	atgtctctga agacagtggc agtgatcgcc ctgcacccgg tccggatggt gttgggaaa	cagctaatc gcacggctc ctctccctgc accgtactcc tcacctggt tctctgggc	accagtttca ccttgccac ctgggtacc ttgaaaacca gcaagtccca cctctgtctt	cccatgtcca gtctgattg ggtctctgt tcttatcata tgattgtca gacctgcgg	tccaccttct gtgtgtctgt ggtctctgt tcttatcata tgattgtca gacctgcgg	aagaacgctc aagtcagaaa gtgccccct gtaatacacag tcatgtctc cagaccacag	ccttcatagg ggttccctgt gcaggagggt ggagatccca tccagtgtgc catgccgct	ctgtatagga accagaatta caacaaactg cagcacgttc agaccgttg atataccaa
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452	130108	G Protein- Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactggtcac cctgcagca agcgactcc agctgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctgggtgtgt gttctccact ggggatttcc ttggtacagg tgggtctctc cagcaatggg agcttcattc ttaccagtt tgaattgttt ggatttactc ttatatcttt caagtcagga ttaaaccttt ttatatatto tcggaacagt cagggtctga gaagaaagt gctctggtgc ctccaataca taggcctggg ttttttctgc tgcaacaaa agactcgact tcgagccatg gaaaaaggga acctcgaagt caacagaaa aaactcctcc atcatgaaa aaactctgcc tacatgttat ctccaagcc acagaagaaa ttgtggacc aggcctgtgg cccaagtcac tcaaaagaaa gtatgtgtgag tccaagatc tctgtggac atcaactg tggtcagagc agctcgacct ccatacac tcggattgaa ccttactaca gcattataa cagcagccct tcccaggagg agagcagccc atgtaactta cagccagtaa actcttttgg atttgccaat tcatatattg ccattgatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt cccctccgtt taaagtcagt gaggctatag gatcttatgt aaacagtttt tgtttctgat agtaattggac ttattcttaa cttagatca gtggcggatc aaaacctaca agattcaact gaaaagtggc cagttatggt tttcttccat ctgatgtgtc agtatctgtt gatttgcttt gtagtttgtt gacatcttaa gattgatgt gaaagtttta gattttttac cctg </p>	Homo sapiens
453	133117	G Protein- Coupled Receptor RAIG1	NM_003979	<p> MNSTGHLQDA PNATSLHVPH SQEGNSTSLQ EGLQDLIHTA TLVCTFLLA VIFCLGSYGN P FIVELSFDDP AFRKRTNFD FMILNLSFCD LFICGVTPAM FTFVLFSSA SSIPDAFCFT FHLTSSGFII MSLKTVAVIA LHRLRMVLGK QNRTASFPC TVLLTLLLWA TSFTLATLAT LKTSKSHLCL PMSSLIAGKG KAILSLYVVD FTFCAVAVSV SYIMIAQTLR KNAQVRKCPP VITVDASRPQ PFMGVPVQGG GDPICQAMPA LYRNQNYNKL QHVQTRGYTK SPNQLVTPAA SRLQLVSAIN LSTAKDSKAV VTCVIIIVLSV LVCCPLPLGIS LVQVVLSSNG SFILYQFELE GFTLIFFKSG LNPFIYSRNS AGLRRKVLWC IQYIGLGFEC CKQKTRLRAM GKNLEVNRR KSSHETNSA YMLSPKPQKK FVDQACGPHS SKESMVSPKI SAGHQHCQS SSTPINTRIE PYYSIYNSSP SQEESPCNL QPVNSFGFAN SYIAMHYHTT NDLVQYDST SAKQIPVPSV ataacagcat gaagtgcgt gaaactggaa taggcgtgtc ctctccctcg accctcccc A tccttgtccc tctgtcacc cctcgctcgt tccctccctc cggcaggggc cgcctttata acaactgctc agagtgcgag ggcgggatag ctgtccaagg tctccccag cactgaggag ctgcctgct gccctcttc gcgcgggaag cagcaccagg ttccacggcca acgccttggc actagggtcc agaattgcta caacagtcct tgatggttgc cgcaatggcc tgaatccaa gtactacaga ctttgtgata agcgtgaagc ttggggcctc gtccctgaaa cgggtggccac agccgggggt gtgacctcgg tggccttcat gctcactctc ccgactcctg tctgcaaggt gcaggactcc aacaggcgaa aaatgctgc tactcagttt ctcttccctc tgggtgtgtt gggcatcttt ggcctcact tcgccttcat catcggaact gacgggagca cagggccac acgtctcttc ctctttggga tccctttttc catctgtctc tccgtcctgc tggctcatgc tgtcagtcctg accaagctcg tccgggggag gaagcccttt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtccagga tttatcgct attgaatata ttgtcctgac catgaatagg accaagctca atgtcttttc tgagctttcc gctcctcctc gcaatgaaga ctttgtctc ctgctcact acgtcctctt ctgatggcg ctgaccttcc tcatgtcctc cttcaccttc tgtgttctt tcacgggctg gaagagacat ggggccaca tctacctcac </p>	Homo sapiens

454	133117 G Protein- Coupled Receptor RAIG1	NP_003970.1	gatgtcctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttctgacttt tgaccgagg tgggatgaca ccactctcag ctccgcttgg gctgccaatg gctgggtggtt cctgttggct tatgttagtc ccgagttttg gctgctcaca agcaaacgaa accccatgga ttatcctgtt gaggatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatcac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattccacac atttccagct gcagaaccag cctcccaaaa aggaattctc catccacagg gccacgctt ggcgagccc ttacaaagac tatgaagtaa agaaagaggg cagtaaacct tgtctgaag agtgggacaa atgcagccgg gcgagagatc tagcggagac tcaaaaggat tgggggaaa tcttgagtct tctgagaaa ctgtacaaga cactacggga acagtttggc tccctccag cctcaaccac aattcttcca tgcctgggct gatgtggct agtaagactc cagttcttag aggcgtgta gtatttttt tttttgtct catccttgg atacttcttt taagtgggag tctcaggcaa ctcaagtta gaccttact cttttgttt gttttttgaa acagatcctt gctctgtcac ccaggcttga gtgcagtggg gcgacacag ccagtgcaag cctcgaccac ctgtgtctca gcaatcctcc catctccatc tcccaaatg ctgggatgac agcgtgagc cacagctccc agcctaggcc cttaatcttg ctgttatttt ccatggacta aaggtctggg catctgagct cagctggctc cacacagctc taggggctg ctcctctaac tcacagtggg ttttgtgagg ctctgtggcc cagagcagac ctgcatatct gagcaaaaat agcaaaagcc tctctcagcc cactggcctg aatctacact ggaagccaac ttgtggcac cccgctccc caaccttct tgcctgggta ggagaggcta agatcaccc taaatctact catctctcta gtgctgctc acattgggccc tcagcagctc ccagaccca attcacaggt caccctctc ttcttgact gtcccaaac ttgctgtcaa ttccgagatc taatctcccc ctacgctctg ccaggaaatc ttccagacct cactagcaca agcccggtg ctccttgtca ggagaattg tagatcattc tcaactcaa ttctggggc tgatacttct ctcatcttgc acccaacct ctgtaaatag atttaccgca ttacgggctg cattctgtaa gtgggcatgg tctcctaag gagagtggt cattgtataa taagtatttc acctgagtat gcaataaaga tgtggtggcc actcttctcat ggtggtggca gcaaaaaaaa aaaaa MATVPDGR NGLSKYRL CDKAEAWGIV LETVATAGV TSVAFMLTLP ILVCKVQDSN P RRMLPTQFL FLLGLGIFG LTFAFIIGLD GSTGPTREFL FGILFICFS CLLAHAVSLT KIVRGKPLS LLVILGLAVG FSLVQDVIAI EYIVLTMRV NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSSFTFC GSFTGWKRHG AHYLTMLLS IAIWVAWITL LMLPDFDRRW DPTILSSALA ANGWVFLIAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGE ETGDTLVAPY STHFQLQNP PQKEFSIPRA HAWPSYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagccttctc catgcccagc tggcagctgg cactgtggcc accagcctac ctggccctgg tgctggtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc catcggagga tgcgacagt caccactac ttcactgtca atctggcgt ggctgacctc tgcatggctg ccttcaatgc cgccttcaac ttgtctatg ccagccacaa catctggtac tttgccctg ccttctgcta ctccagaac ctctcccca tcacagccat gttgtcagc atctactcca tgaccgcat tgctgccgac aggtacatgg ccatcgtcca cccctccag cctcggcttt cagctcccag caccaggcg gttattgtg ctatctgctg ggtggtctc gcctggcct cccctcagtg ctctactcc accgtcacca tggaccaagg tggaccaag	Homo sapiens
455	152198 Tachykinin Receptor 2	NM_001057	gatgtcctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttctgacttt tgaccgagg tgggatgaca ccactctcag ctccgcttgg gctgccaatg gctgggtggtt cctgttggct tatgttagtc ccgagttttg gctgctcaca agcaaacgaa accccatgga ttatcctgtt gaggatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatcac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattccacac atttccagct gcagaaccag cctcccaaaa aggaattctc catccacagg gccacgctt ggcgagccc ttacaaagac tatgaagtaa agaaagaggg cagtaaacct tgtctgaag agtgggacaa atgcagccgg gcgagagatc tagcggagac tcaaaaggat tgggggaaa tcttgagtct tctgagaaa ctgtacaaga cactacggga acagtttggc tccctccag cctcaaccac aattcttcca tgcctgggct gatgtggct agtaagactc cagttcttag aggcgtgta gtatttttt tttttgtct catccttgg atacttcttt taagtgggag tctcaggcaa ctcaagtta gaccttact cttttgttt gttttttgaa acagatcctt gctctgtcac ccaggcttga gtgcagtggg gcgacacag ccagtgcaag cctcgaccac ctgtgtctca gcaatcctcc catctccatc tcccaaatg ctgggatgac agcgtgagc cacagctccc agcctaggcc cttaatcttg ctgttatttt ccatggacta aaggtctggg catctgagct cagctggctc cacacagctc taggggctg ctcctctaac tcacagtggg ttttgtgagg ctctgtggcc cagagcagac ctgcatatct gagcaaaaat agcaaaagcc tctctcagcc cactggcctg aatctacact ggaagccaac ttgtggcac cccgctccc caaccttct tgcctgggta ggagaggcta agatcaccc taaatctact catctctcta gtgctgctc acattgggccc tcagcagctc ccagaccca attcacaggt caccctctc ttcttgact gtcccaaac ttgctgtcaa ttccgagatc taatctcccc ctacgctctg ccaggaaatc ttccagacct cactagcaca agcccggtg ctccttgtca ggagaattg tagatcattc tcaactcaa ttctggggc tgatacttct ctcatcttgc acccaacct ctgtaaatag atttaccgca ttacgggctg cattctgtaa gtgggcatgg tctcctaag gagagtggt cattgtataa taagtatttc acctgagtat gcaataaaga tgtggtggcc actcttctcat ggtggtggca gcaaaaaaaa aaaaa MATVPDGR NGLSKYRL CDKAEAWGIV LETVATAGV TSVAFMLTLP ILVCKVQDSN P RRMLPTQFL FLLGLGIFG LTFAFIIGLD GSTGPTREFL FGILFICFS CLLAHAVSLT KIVRGKPLS LLVILGLAVG FSLVQDVIAI EYIVLTMRV NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSSFTFC GSFTGWKRHG AHYLTMLLS IAIWVAWITL LMLPDFDRRW DPTILSSALA ANGWVFLIAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGE ETGDTLVAPY STHFQLQNP PQKEFSIPRA HAWPSYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagccttctc catgcccagc tggcagctgg cactgtggcc accagcctac ctggccctgg tgctggtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc catcggagga tgcgacagt caccactac ttcactgtca atctggcgt ggctgacctc tgcatggctg ccttcaatgc cgccttcaac ttgtctatg ccagccacaa catctggtac tttgccctg ccttctgcta ctccagaac ctctcccca tcacagccat gttgtcagc atctactcca tgaccgcat tgctgccgac aggtacatgg ccatcgtcca cccctccag cctcggcttt cagctcccag caccaggcg gttattgtg ctatctgctg ggtggtctc gcctggcct cccctcagtg ctctactcc accgtcacca tggaccaagg tggaccaag	Homo sapiens

456 152198 Tachykinin Receptor 2 NP_001048.1 Homo sapiens

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ggggacacag cccctccga ggctaccagt ggggaggcg ggcgtcccca ggtggatca
gggctatggt ttgggtatgg ttgtcttggc cccacacaaa ctcattgtga aatttga
HRRMRTVTNY FIVNLALADL CMAAFNAFNP FVYASHNIWY FGAFICYFQN LFPITAMFVS
IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFYS TVTMDQGATK
CVVWAPEDSG GKTLLLYHLV VIALIYFLPL AMFVAYSIV GLTLWRRAPV GHQAHGANLR
HLQAKKKFVK TMVLVVLTFE ICWLPHYLYF ILGSFQEDYI CHKFIQQVYL ALFWLAMSST
MYPPIIYCCL NHRFRSGFRL AFRCCPWVTP TKEDKLELTP TTSLSRWRNR CHTKETLFMA
GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PTKTHVEI

457 152201 Thyrotropin Receptor NM_000369 Homo sapiens

ccgctcccgg gctcctttt ggcctggggg aaccgaggt gcagagctga gaatgaggcg A
atttcggagg atggagaaat agccccaggt cccgtggaaa atgaggcccg cggacttgct
gcagctgggt ctgctgctcg acctgcccag gacactgggc ggaatgggggt gttcgtctcc
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[illegible]

460	152245 C-C	Chemokine Receptor 2	NP_000639.1	MLSTSRSRFI RNTNESGEEV TTFDDYDYG PCHKFDVKQI GAQLLPPLYS LVFIFGVGN P	Homo sapiens
461	152299 Interleukin- 8 Receptor A	IG5459		MLVLLILNC KKLKCLTDIY LLNLAISDLL FLITLPLWAH SAANEWVFGN AMCKLFTGLY HIGYFGGIF IILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITLWVAF ASVPGIIFTK CQKEDSVYVC GPYFPRGWN FHTIMRNILG LVLPLLMVI CYSGLKTL RCRNEKKRHR AVRVIPTIMI VYFLFWTPYN IIVLLNTFQE FFLSNCEST SQLDQATQVT ETLGMTHCCI NPIIYAFVGE KFRRYLSVFF RKHITKRFC QCPVFYRETV DGVTSNTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGT A GTCTTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTTCTCTAG GCCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAAA TAGGGAAACC AAGTCAGACG ACACCTCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGG ATCAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATATCTGA ATTTTCCACT CTATGGATGA TCACTTTTAT TCTTTTCTT TTCTTGAATT TATTTCCATT TGTATTATCC TAAATTCCT GTTAGATCAC CTGTGAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGA AGGATTGAC TTACAGCAG AGACTTACA AGGAGTCTC TCTAGGAGCA AATTGGGGC AATCCAGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT	Homo sapiens

462	152299 Interleukin- 8 Receptor A	NM_000634	Homo sapiens
			agctgttaag tcactctgat ctctgactgc agctctact gttggacaca cctggccggt A
			gcttcagtta gatcaaccca ttgtgaaac tgaagaggac atgtcaata ttacagatcc
			acagatgtgg gattttgatg atctaaattt cactggcatg ccacctgcag atgaagatta
			cagccctgt atgttagaaa ctgagacact caacaagtat gttgtgatca tgcgctatgc
			cctagtgttc ctgtgagcc tgctgggaaa ctccctgggt atgctgggtca tcttatacag
			cagggtcggc cgtccgtca ctgagtcta ctgtgaaac ttggccttgg ccgacctact
			ctttgcccctg acctggccca tctgggcgc ctccaagggt aatggctgga tttttggcac
			attcctgtgc aagtggtct cactcctgaa ggaagtcaac ttctacagtg gcatcctgct
			gttggcctgc atcagtgtgg accgttacct ggccattgtc catgccacac gcacactgac
			ccagaagcgt cacttggtca agtttgttg tcttggtgc ttgggactgt ctatgaatct
			gtccctgccc tcttcccttt tccgccaggc ttaccatcca acaaatccca gtccagtttg
			ctatgaggtc ctgggaaatg acacagcaaa atggcggatg gtgttgcgga tctgacctca
			cacctttggc ttcactgtgc cgtgttttgt catgctgttc tgctatggat tcacctggtg
			tacactgttt aaggccaca tggggcagaa gcaccgagcc atgaggggtca tctttgctgt
			cgtccctcatc ttcctgtctt gctggctgcc ctacaacctg gctctgctgg cagacacct
			catgaggacc caggtgatcc aggagagctg tgagcgccgc acaaacatcg gccgggcccc
			ggatgccact gagttcttg gatttctcca tagctgcctc aacctcatca tctacgcctt
			catcggccaa aatttcgcc atggattcct caagatcctg gctatgcatg gcctgggtcag
			caaggagttc ttggcagtc atcgtgttac ctctacact tctcgtctg tcaatgtctc
			ttccaacctc tgaaaacctat cgatgaagga atatctcttc tcagaaggaa agaataacca
			acacctgag gttgtgttg gaagtgatc tggctctgga caggcactat ctgggttttg
			gggggacgct atagatgtg gggaagttag gaactggtgt cttcaggggc cacaccaacc
			ttctgaggag ctgttgaggt acctccaaag accggcctt gcacctccat ggaacgaag
			caccatcatt ccgttgaac gtcacatctt taacctata actggtataat tagcatggcc
			acatctgagc ccgaatctg acattagatg agagaacagg gctgaagctg tgcctcatg
			agggctggat gctctggtg acctcacag gagcatctcc tcaactctga gtgttaagcg
			ttgagccacc aagctggttg ctctgtgtgc tctgatccga gctcaggggg gtgttttcc
			catctcaggt gtgttgcatg gtctgtgga gacattgagg caggcactgc caaaacatca
			acctgccagc tggccttgtg aggagctgga aacacatgtt ccccttgggg gtgtgtggtg
			aacaaagaga aagagggttt ggaagccaga tctatgccac aagaaccccc ttacccccca
			tgaccaacat cgcagacaca tgtgtggcc acctgctgag cccaagtgg aacgagacaa
			gcagccctta gccctcccc tctgcagctt ccaggctggc gtgcagcatc agcatcccta
			gaaagccatg tgcagccacc agtccattgg gcaggcagat gttcctaata aagcttctgt
			tccgtgcttg tccctgtgga agtatcttgg ttgtgacaga gtcaagggtg tgtgcagcat
			tggtggctgt tcctgcagta gaatgggggc agcacctcct aagaaggcac ctctctgggt
			tgaaggggcag tgttccctgg ggctttaat cctgtagaa cagtctcttg aggcacagaa
			actcctgttc atgccatac cctggccaa ggaagatccc tttgtccaca agtaaaagga
			aatcctcctc caggaggtct cagcttcacc ctgaggtgag catcatcttc tgggttaggc
			cttgccctagg catagcctgc ctcaagctat gtgagctcac cagtcctccc ccaatgctt
			tccatgagtt gcagtttttt cctagtctgt ttccctcct tggagaacag ggccctgtcg
			gtttgttcac tgtatgtct tgggtgcttg agcctactaa atgtcaata ataataatc

463	152299	Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcattgctg aaaagaccac tctttt MSNITDPQMW DFDDLNFTGM PPADEDYSPC MLETETLNKY VVLIAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLFAL TLPWAASKV NGWIFGTFLC KVSLLKEVN FYSGILLAC ISVDRLAIV HATRTLQKR HLKVEVCLGC WGLSMNLSLP FFLEFQAYHP NNSSPVCYEV LGNDTAKWRM VLRIPLHTEG FIVPLFVMLF CYGFTLRTLK KAHMGQKHRA MRVIFAVVLI FLLCWLPLYN LLLADTLMT QVIQESCERR NNIGRALDAT EILGFLHSL NPILYAFIGQ NFRHGLKIL AMHGLVSKF LARHRTSYT SSSNVVSSNL	Homo sapiens
464	158822	Mas Proto-Oncogene	NM_002377	ctctgagcct cctcatggat gggtcaaacg tgacatcatt tgttgttgag gaacccacga A acatctcaac tggcaggaac gcctcagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tccccagtcg gggttgtga gaatgggatt ctcctctggt tcctgtgctt ccggtatgaga agaaatccct tcaactgtca catcacccac ctgtctatcg cagacatctc actgctcttc tgtattttca tcttgtctat cgaactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttggct acaacacggg cctctatctg ctgacggcca ttagtgtgga gaggtgcctg tcagtccttt accccatctg gtaccgatgc catcgcccca agtaccagtc ggcatgggtc tgtgcccctc tgtgggctct ttcttgcttg gtgaccacca tggagtatgt catgtgcacg gacagagaag aagagagtca ctctcggaat gactgcggag cagtcacatc ctttatagcc atcctgagct tcctggctct caccgcccct atgctgggtg ccagcaccat ctgtgtcgtg agatccgga agaacacgtg ggcttcccat tcctccaaagc ttacatagtc catcatggtc accatcata tattctcat ctctgctatg cccatgagac tctttacct gctgtactat gagtattggt cgacctttgg gaacctacac cacattttcc tgctttctc cacaatcaac agtagcgcca accttttcat ttactttctt gtgggaagca gtaagaagaa gagattcaag gagtccctaa aagttgttct gaccagggtc ttcaaatgat aaatgcaacc tcggcgccag aaagacaaat gtaatacggg cagagttgag actgtcgtct aagaactgtg agggaaagtg tggataaaaa tgggtggaaca caggtcatct ttagtttgtg ctgggaatat gacttaagta tctcctaaat gtgatacaga agaactctc atcccatatg catgagatac taattaatga tgaaa gtgatacaga agaactctc atcccatatg catgagatac taattaatga tgaaa MDGSNVTSFV VEEPTNISTG RNASVGNHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P MRRNPFTVYI THLSIADISL LFCIFILSID YALDYELSSG HYTVITLSV TFLFGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTMEYVM CIDREEESH RNDRAVIF IAILSFLVFT PLMLVSSTIL VVKIRKNTWA SHSKLYIVI MVTIIIFLIF AMPMLLLYLL YYEYWSFPGN LHHISLLFST INSSANPFIY FFVGSKKKR FKESLKVLT RAFKDEMQPR RQKDCNCTVT VETV	Homo sapiens
465	159152	G Protein-Coupled Receptor GPR43	NM_005306	atgctgcccg actggaagag ctccttgatc ctcatggctt acatcatcat cttcctcact A ggctccctg ccaacctctt ggccctgcgg gcctttgttg ggcgatccg ccagccccg cctgcacctt tgcacatcct cctgctgagc ctgacgctgg ccgacctcct cctgctgctg ctgctgccct tcaagatcat cgaggctgcg tcgaacttcc gctgtacct gcccaaggct gtctgcgccc tcacgagttt tggcttctac agcagcatct actgcagcac gtggctcctg gcgggcatca gcacagagcg ctacctggga gtggctttcc ccgtgcagta caagctctcc cgccggcctc tgtatggagt gattgcagct ctgggtggcct gggttatgtc ctttggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcaggtcac aagtggcaat	Homo sapiens

467	159152 G Protein- Coupled Receptor GPR43	NP_005297.1	gaaattacct gctacagagaa cttcaccgat aaccagttgg acgtggtgct gccctgctgg ctggagctgt gccgtggtgct cttcttcac cccatggcag tcaccatctt ctgctactgg cgttttctgtt ggatcatgct ctcaccagccc cttgtggggg ccagagggcg gcgccagacc gtggggctgg ctgtggtgac gctgctcaat ttctctggtg gcttcggacc ttacaactgt tcccacctgg tggggtatca ccagagaaaa agcccctggt ggcggtcaat agccgtggtg ttcagttcac tcaacgccag tctggacccc ctgctcttct attctcttc ttcagtggtg cgcagggcat ttggagaggg gctgcaggtg ctgcggaatc agggctcctc cctgttggga cgcagaggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa gggatgcaa gttcgactt cactacagag tag MLPDKSSLI LMAVIIIFLT GLPANLLALR AFVGRIRQPQ PAPVHILLLS LTLADLLLL P LLPFKIIIEAA SNFRWYLPKV VCALTSEGFY SSIYCSWLL AGISIERYL G VAFPVQYKLS RRPLYGVIAA LVAVWMSFGH CTIVIIQYL NTEQVRSNG EITCYENFTD NQLDVVLPVR LELCVLFFI PMAVTIFCYW RFVWIMLSQP LVGAQRERRA VGLAVVTLN FLVCFGPYNV SHLVGYHQRK SPWRSIAW FSSLNASLDP LLFYFSSSVV RRAFGRGLQV LRNQSSLLG RRGKDTAEGT NEDRGVQGE GMPSSDFTTE	Homo sapiens
468	159973 Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	gccacacagg cagcgccact ctgccaggct cccggccatc gcccgccctgg tgcgccgcc A gccagctctt tgcgcgcgcg ggcgcgcgcg cgcgcggctc aggcagacc atgcgccgcg caagtccgct gccgcgcgcg tggctatgcg tgctggcagg cgcctcgcc tgggcccttg ggccggcggg cggccagggc gccaggctgc aggagagtg tgactatgt cagatgatc aggtgcagca caagcagtgc ctggaggagg ccagctgga gaatgagaca ataggctgca gcaagatgt ggacaacctc acctgctggc cagccacccc tcggggccag gtatgtgtct tggcctgtcc cctcatcttc aagctcttct cctccattca aggcgcgaat gtaagccgca gctgcaccga cgaaggctgg acgcacctgg agctggccc gtacccatt gccgtgtggt tggatgacaa ggcagcagat ttggatgagc agcagacctt gtttacgggt tctgtgaaga ccggctacac cattggctac gccctgtccc tcgccacct tctgttcgcc acagctatcc tgagcctgtt caggagctc cactgcacgc ggaactacat ccacatgcac ctcttcatat ccttcacct gagggtgcc gctgtcttca tcaagactt ggccctcttc gacagcggg agtcggacca gtgctccgag ggctcgtgg gctgtaaggc agccatggtc ttttccaat attgtgtcat ggtaacttc ttctggtgc tgggtgaggg cctctacctg tacacctgc ttgccgtctc cttctctct cagcggaagt actctgggg gtacatactc atcggtggg gggtacccag caccatcac atggtgtgga ccatcgccag gatccatttt gaggattatg gggtctggga caccatcaac tcttcaactt ggtggatcat aaaggcccc atctcacct ccatcttggg aaacttcac ctgtttattt aatcctgctt cagaaaactgc ggccccaga taccaggaag agtgacagca gtccatactc aaggtagacc aggtccacac tctgtctgat cccctgttt ggagtacact acatcatgtt cgcctcttt cggacaatt ttaagcctga agtgaagatg gtctttgagc tgcgtgtgg gctttccag ggttttgtg tggctatcct ctactgttc ctcaatggtg aggtgcaggc ggagctgagg cggaaagtgc ggcgtggca cctgcagggc gtctgggct ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cgcacgtgc agcagcagg ttccatgtt gaccgcgtc agcccaggtg ccgcgcgtc ctccagctc caagccgaag tctccctggt ctgaccacca ggatccagg ggcccaaggc ggccctccc gcccttccc actcaccccc gcagacggc gggacagagg	Homo sapiens

469	159973 Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	MRPSPPLPAR WLCVLAGALA WALGPAGGQA ARLQEEDYV QMIEVQHKQC LEEAQLNET P IGCSKMWDNL TCWPATPRGQ VVVLACPLIF KLFSSIQGRN VRSCTDEGW THLEPGYPYI ACGLDDKAAS LDEQQTMYG SVKTGYTIGY GLSLATLLVA TAILSLFRKL HCTRNYIHMH LFISFILRAA AVFIKDLALF DSGESDQCE GSVGCKAAMV FFQYCVMANF FWLLVEGLYL YTLAVSFFS ERKYFWGYIL IGWGVPTST MWTIARIHF EDYGCWDTIN SSLWIIKGP ILTSILVNF I LFICIIRILL QKLRPPDIRK SDSSPYSRLA RSTLLIPLF GVHYIMFAFF PDNFKPEVKM VFELVGSFQ GFVAILYCF INGEVQAE LR RKWRRWHLQG VLGWNPKYRH PSGSGNGATC STQVSMLTRV SPGARRSSSF QAEVSLV cgggacgagg gggcgcccc cgcgctcggg cgcgctcggct acagctgcgg ggccccgagt A ctccgcgcac tcgctccccg cccatgctgg aggcggcgga acccgggga ctaggacgg aggcggcggg cgcgggcggg cccccggac cctgagctcg ggatgcggac gctgctgct ccgcgctgc tgacctgtcg gctgctcgc cccgtgaaca gcattcaacc agaagcgga tttcatctgg aaatacagga ggaagaaaca aaatgtacag agcttctgag gctcaaaa gaaaacaca aagcctgcag tggcgtcgg gacaacatca cgtgctggc gctgccaat gtggagaga cgcgcacgt gccctgcca aagctcttca gcaatttta cagcaagca gaaaacataa gcaaaaactg tacgagtgc gcatggtcag agacgttccc agattcgtc gatgcctgtg gctacagcga cccggaggat gagagcaaga tcacgtttta tattctggtg aaggccattt ataccctggg ctacagtgc tctctgatgt cctctgcaac aggaagcata attctgtgcc tcttcaggaa gctgcactgc accaggaatt acatccacct gaacctgtc ctgtccttca tctgagagc catctcagtg ctggtcaagg acgacgttct ctactccagc	Homo sapiens
470	160040 Vasoactive Intestinal Polypeptide Receptor 2	NM_003382		Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggcacgt tgcactgccc tgaccagcca tctctctggg tgggctgcaa gctgagcctg gtcttctctg agtactgcat catggccaac tcttctctggc tgctggtgga ggggctctac ctccacaccc tctgtgtggc catgtctccc gtagaaggc gcttctctggc ctactctctg atcgatggg gcttctctccac cgtctgcatc gctgagcga cgtgagccag gctctactta gaagacaccc gttgctggga tacaacgac cacagtggc cctggtgggt catacgaata ccgattttta ttctcatcat cgtcaatttt gctcttttca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtggc ggcaacgacc agtctcagta caagaggtg gccaagtcca cgtctctgct tatcccgctg ttggcgctcc actacatggt gtttgcctg tttcccatca gcatctcttc caataccag atactgtttg agctgtgctt cgggtcgttc caggccctgg tgggtggcct cctctactgt ttctgaaca gtgaggtgca gtgcgagctg aagcgaat ggcgaagccg gtgcccagc cgtcccgga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcgag ggcgctctg agtccaccg cgcgtcccg gccagtcct tctgcaaac ggagacctg gtcacttagc cccacccctg cctgtcggac gcggcgggag gccacaggtt cgggctctt cggggctga gacgcggctt tctctcttcc agatgccga gcacgtgtc gggcaggtca gcggtgctt gactccgtca agctggtgtg ccactaaacc ccatacctgg</p>	Homo sapiens
472	160055 Motilin Receptor (GPR38)	NM_001507	<p>atgggcagcc cctggaacgg cagcgacggc cccgaggggg cgcggagacc gccgtggccc A gcgctgccgc cttgcgacga gcgcgctgc tgcctcttc cctggggggc gctggtgccg gtgaccgctg tgtgctgtg cctgttcgtc gtcggggtga gcggcaacgt ggtgaccgtg atgctgatc ggcgctaccg ggacatgccc accaccacca actgtacct ggacagcatg gccgtgtccg acctactcat cctgtcggg ctgcccgttc accgtaccg cctctggcgc tcggggccct ggtgttctgg gccgtgctc tgcgctctgt cctctacgt gggcgagggc tgacactacg ccacgtgct gcacatgacc gcgctcagcg tcgagcgcta cctggccatc tgccgccgcg tccgcgcgcg cgtcttggtc acccgcgcc gcgtccgcg gctcatcgct gtgctctggg ccgtggcgct gctctctgc ggtccctctt tgttcttggg gggcgtcgag caggaccccg gcatctcgt agtcccgcc ctaaatggca ccgcgggat cgcctctctg cctctgcct cgtcgccgc tctctggctc tgcggggcgc caccgcgtc cccgcctg ggggcccgaga ccggggaggc cgcggcgctg ttacgcccgc aatgcggcc gagccccg cagctgggcy cgtgctgtgt catgctgtgg gtcaccaccg cctactctt cctgcccc ctgtgctca gcatctcta cgggtctatc cggcgaggc tgtgagcag ccggcgggccg ctgcgagggc cggccgcctc gggcgggag agagggccac ggcagaccgt ccgcgtctctg ctggtggtgg ttctggcatt tataatttgc tccacgttgg cagaatcatt tacataaaca cgggaagattc gcggatgat tacttctctc agtactttaa catcgtcgct</p>	Homo sapiens

160055 Motilin
Receptor
(GPR38)

NP_001498.1

160055 Motilin
Receptor
(GPR38)

473

ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct catttcaaaag
aagtacagag cggcgccctt taaactgctg ctgcgaagga agtccaggcc gagaggcttc
cacagaagca gggacactgc gggggaagt ctgagggaca ctggaggaga cactgtgggc
tacacgaga caagcgttaa cgtgaagac atgggataa
MGSPWNGSDG PEGAREPPWP ALPPCDERRC SPFFLGALVP VTAVCLCLFV VGVSGNVVTV P
MLIGRYRDMR TTTNLYLGSN AVSDLLILG LPFDLYLWR SRPWVEGPLL CRLSLYVGE
CTYATLLHMT ALSERYLAI CRPLRARVLV TRRRVALIA VLVAVALLSA GPFLFLVGE
QDPGISVVP GNGTARIASS PLASSPPLWL SRAPPPSPS GPETAEEAAL FSRECRPSPA
QLGALRVMLW VTTAYFFLPF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGHRTVRLV
LVVVLAFIIC WLPFHVGRII YINTEDSRNM YFSQYFNIVA LQLFYLSASI NPILYNLISK
KYRAAAFKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG

Homo
sapiens

NM_005303

160059 G Protein-
coupled
Receptor
GPR40

474

Homo
sapiens

atggacctgc ccccgagct ctcctcggc ctctatgtg cgcctttgc gctgggcttc A
ccgctcaacg tcttgccat ccgagcgcg acggcccaag cccggctccg tctacacct
agcctggctc acgacctgaa cctgggtgc tccgacctg tctgacagt ctctctgcc
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gggtctatca cgggtgctg ggtgtgtg agtgtgtg gcaagaacgc aagggggcaa gtcccagaag
aggggtcctg gctgaagac agtgtgtg gcaagaacgc aagggggcaa gtcccagaag
taa

Homo
sapiens

NP_005294.1

160059 G Protein-
coupled
Receptor
GPR40

475

MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SLVVALNLGC SDLLTVSLP P
LKAVEALASG AWPLPASLCP VFVAHFFPL YAGGGFLAAL SAGRYLGAAP PLGYQAFRRP
CYSWGVCAAI WALVLCHLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG
PARFSLSLLL FFLPLAITAF CYVGLRALA RSLGTHRRKL RAAWVAGGAL LTLLLCVGPY
NASNVASFLY PNLGGSWRKL GLITGWSV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK
atgcacaccg tggctacgtc cggaccacaac cgcctcctgg gggaccggc caacgcctcc A
ggctgccccg gctgtggcgc caacgcctcg gacggcccg tccctcgcc gcgggcccgtg
gacgctggc tegtgcgct ctcttcgcg gcgtgatgc tgcgtggcct ggtggggaac
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atcgccaaac tggcgggcac ggacgtgacc tctcctctgt gctgcgtccc ctccacggcc
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atccagcagg tctcggtgca ggcacgtgt ggcacttga cgcctatgag tgtggaccgc
tggtacgtga cgggtgtccc gttgcgcgc ctgcaccgc gcacggccc cctggcgctg
gctgtcagcc tcagcatctg gtaggctct gcggcggtg ctgcgcggt cctgcgcctg

Homo
sapiens

NM_032551

160189 G Protein-
Coupled
Receptor
GPR54

476

Homo
sapiens

477	160189	G Protein- Coupled Receptor GPR54	NP_115940.1	<p>caccgcctgt caccggggcc gcgcgacctac tgcaagtgaag ctttcccccag ccgcgccttg gagcgcgcct tgccactgta caacctgctg gcgctgtacc tgctgcgcgt gctcgccacc tgccctgct atgcggccat gctgcgccac ctgggcccgg tgccgctgcg ccccgccccc gccgatagcg cctgcaggg gcaggtgctg gcagagcgcg caggcccgct gcgggccaag gtctgcgggc tggtagcggc cgtggtcctg ctctgcgcg cctgtggggg ccccatccag ctgttcctgg tgcgcagcc gctgggcccc gcgggctcct ggcaaccacg cagctacgcc gcctacgcgc ttaagacctg ggtcacctgc atgtcctaca gcaactccgc gctgaacccg ctgtctacg cttctctggg ctgcacctc cgacaggcct tccgcgcgt ctgcccctgc gcgcgcgcgc gcccccgcgc ccccgccgg gcgcgcgcgc cggaccctgc agccccacac gcggagctgc accgcctggg gtcccaaccg gcccccgcca ggccgcagaa gccagggagc agtgggctgg ccgcgcgcgc gctgtgcgc ctgggggagg acaacgcccc tctctga</p>	Homo sapiens
478	160202	Adrenomedullin in Receptor (ADMR)	IG6564	<p>SILVIVICRH KPMRTVNEFY IANLAATDVT FLCCVPFTA LLYPLFGWVL GDFMCKFVNY IQQVSVQATC ATLTMVSDR WYTVFPLRA LHRRTPLAL AVSLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP ADSAIQGQVL AERAGAVRAK VSRLVAHVLL LLYAFLGSHE RQAFRRVCPG APRRRRPRR PGSPDPAAPH AYALKTWAHC MSYNSALNP LLYAFLGSHE SGLAARGLCV LGEDNAPL</p>	Homo sapiens
479	160202	Adrenomedullin in Receptor (ADMR)	NM_007264	<p>CCGCGGCCAC GTGCGCTGCT GTGCGGCGCT ACCTGACGCG GCATTGTTCAT GCACTGGCTG A ACCTATCATG AGACCTGCTG CTGCTCTACA CTGATGTGAA CCCACATCTG CCTACACTGC CAGCTGGTAC CACTGCTCT ACTTCTTCTA TGATGTCTAT TGACTGTCTG TACATGCTAG ACTGCGCTAT TCACCGGATC CTTGACAACT TTATGACCCA GACTGCCGGG GCGGGCTGCC ATGCTGTGTT CCATTACTTG CTAAGGACCA GACCGCGGG GCACATGCGC CTCCTCTTCC TTCTGTGACA CCCAGCGTTA CATAATCAT ACCACGGGTG ATAGCCAGAC TGCTGCGAGC AACCGGCCAC CTGACGCCA AGCCTGAGCT TTCAGGCACA CCATTGCGTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGTGAGG T</p>	Homo sapiens

480	160202 Adrenomedullin NP_009195.1 in Receptor (ADMR)	MSVKPSWGP PSEGTVAVPT SDLGEIHNWT ELLDLFNHTL SECHVELSQS TKRVLFALY P LAMFVVLVE NLLVICVNRW GSGRAGLMNL YILNMAIADL GIVLSLPVWM LEVTLDTYWL WGSFSCRFTH YFYFVNMYSS IFFLVCLSDV RYVTLTSASP SWQRYQHRVR RAMCAGIWL SAIILPEV HIQLVEGPEP MCLFMAPPET YSTWALAVAL STTILGFLLP FPLITVENVL TACRLRQPGQ PKSRRHCLLL CAYVAVFVMC WLPYHVVTLL LTLHGTHISL HCHLVHLLYF FYDVIDCFSM LHCVINPILY NFLSPHFRGR LLNAVWHYLP KDQTKAGTCA SSSSCSTQHS IITKGDSP AAAAPHEPS LSFQAHLLP NTSPISPTQP LTPS	atgcgggttc tgcttccaaa gccatctctt ccagcaggag agggctctac tctgagctcc A tatlttccaa ggctccgggc cgcgctcggc gctggcctgc tgcctcggcg ggtccgcgg ccggaggcgg gagtacagg agagccctc cacaagaaga ggcctcggcg gatcaggaca gctgcaggty ggtgtgcaga ctggtgagct gccagcagg gccagacgc gccaggcctg gagatggctg gaaactgctc ctgggaggcc catccggca acaggaacag gatgtgccct ggcctgagcg aggcccgga actctacgc cgggcttcc tgacctga gcagatcgcg atgctgcgc ctccggccgt catgaactac atcttctgc tctctgcct gtgtggcctg gtgggcaacg gctgggtcct ctggttttc ggcttctcca tcaagaggaa ccccttctcc atctacttcc tgcacctggc cagcgcgat gtgggtacc tcttcagcaa ggcgtgttc tccatctga acacggggg ctctcctggc agcttgcgc actacatcc cagcgtgtgc cgggtctcgg ggctctgcat gtctctacc ggctgagcc tccctcggcg cgtcagcgcc gagcgtcgg cctcggtcat ctcccccgc tggtagtggc cggcgccgc caagcgcctg tcggccgtgg tgtgcgccct gctgtgggc cgttccctcc tggtaacctg cctgcacaa tacttctgc ttctcctgg ccgcggggc cctgctctgc tgggtctgc ctgcctggcc ttctgggca tccctcgtt cctgctctgc tgcctctca tgggtctgc ctgcctggcc ctcatctgc acgtggagt cggggccga cgggcacgc gctctgcaa gctcaaccac gtcatcctgg ccattgtct cgtcttctc gtgtctcca tctactagg gatcagctgg ttctcttct ggtcttcca gatcccgcc ccttccccc agtacgtcac tgacctgtgc atctgcatca acagcagcgc caagcccatc gtactattcc tggccgggag ggacaagtgc cagcggctgt gggagcgcct cagggtgttc tccagcggg cctgcggga cggcgtgag ctgggggagg ccgggggcag cagcccaac acagtacca tggagatga gtgtccccc gggaacgct cctgagactc cagcgcctg aggagcagg gccaggaagc ggctccaa accttcgcc ttgggacagg aatgggacc tctcttctc ctgggtggg gactccagg agaagaaga tctgttctc ctctcgggc ctcttctcc ctgggtggg gactccagg gtggctggga gactgggag ccaccagca acagacctgt ggccctgc cggctcccc acctattg ctccctaga gacctctgt acagaagtgt ccccgagtgt gtggggcccc tccctgcccc aggctggtgt gtaaaagaga ggaggtcaac acccagccta gccacctgt cctcttgggt	Homo sapiens
481	160204 G Protein-Coupled Receptor RTA	AX136399		Homo sapiens

482	160204	G Protein-Coupled Receptor RTA	CAC39840.1	<p> cagccctcct tgactgtgtc ccagccagca ccaggccagc agctcatcc ctgccattca gggtgttccc agagattcga tccctttaag gcattatcag tgagcaaatg tgaaggaaat gggtgtctgga agaaagtctt ggttcacatg ccttgtagct aagcttttct gcaacaacac tcccttcccc ccgtcgagtc atttggtgac tttgatggg ggatttctgg ttatgtcaag gctctggaga caggaagggc ctttgccgc cttgggtagt tgacctgctt ttctgactc cgggacagc cagtcctagg ctgctcccg gagccttga ggtatcccg aggccatgag gaccactgg gcagctctg gacagctct tggctccag cccaccgga aagtggacac tggtccgccc ctggccacct ggggactgg actgtgtgc acagtggccc aatgtggcca acggaagttt tataaagac aaatgtata tcaataaca tttataact tgc MAGNCSWEAH PGNRNRCPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCLGV P GNGLVWFFG FSIKRNFFSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVVCALLWVL SLLVTCLHNY FCVFLGRGAP GAACRHMDIF LGILLFLCC PIMVLPCLAL ILHVECRARR QRSAKLNHV ILAMVSVFLV SSIYLGIDWF LEWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RIWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEQCPPG NAS atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggaacctgg ggtcctgaca A cgtgatcgct cttgttcag gaagatgac tcttcggga tcttcgctga ggaggtggg tccctccgc cactgactgt ggtatcctg tctgcgtcca ttgtcgtcg agtctgggc aatgggctgg tctgtggat gactgtctt cgtatggcac gcaggtctc caccgtctgc ttcttccacc tggcccttgc cgatttcag ctctcactgt ctctgccat tgcctgtac tatattgtct ccaggcagtg gctcctcga gagtgggctt gcaaacctca catcacctt gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctctgt ggacctgtgc atctctgtcc tctacccctg ctggccctg aaccaccgca ctgtcagcg ggcgagctgg ctggcccttg gggtgtgct cctggccgc ccttctgtct ctgcacact gaaattccg acaaccagaa aatggaaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac ttctgtctgg gcttctctgg gcccttagca atcataggca cctgcgcca cctcatccg gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagggtt gctgctggtg ctgggtgagc ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct agcttgcct tgggctgtgt caacagcagc ctaacccctt tccctcact cctcgttggc agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga gagaggaggt ttctgtcat ctgtccctg ggaacgccc cccgggaatg a MNGVSEGTG CSDRQGVLT RDRSCSRKMN SSGCLSEEVG SLRPLTVIL SASIVGVLG P NGVLWMTVF RMARTSTVC FFHLALADEM ISLSLPIAMY YIVSRWLLG EWACKLYITF VELSYFASNC LLVFISVDRCL ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR TTRXWNGCTH CYLAFNSDNE TAQIWIEGVV EGHIGTIGH FLGLFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIFWS PBNVLLVHL WRRVLMKEIY HPRMLLIQA SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cctccacctc tgtctgccc tgcctcttgc tctagctgct gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgcc cagagcccca cgatgtcgcc </p>	Homo sapiens
483	160206	G Protein-Coupled Receptor GPR32	NM_001506	<p> cagccctcct tgactgtgtc ccagccagca ccaggccagc agctcatcc ctgccattca gggtgttccc agagattcga tccctttaag gcattatcag tgagcaaatg tgaaggaaat gggtgtctgga agaaagtctt ggttcacatg ccttgtagct aagcttttct gcaacaacac tcccttcccc ccgtcgagtc atttggtgac tttgatggg ggatttctgg ttatgtcaag gctctggaga caggaagggc ctttgccgc cttgggtagt tgacctgctt ttctgactc cgggacagc cagtcctagg ctgctcccg gagccttga ggtatcccg aggccatgag gaccactgg gcagctctg gacagctct tggctccag cccaccgga aagtggacac tggtccgccc ctggccacct ggggactgg actgtgtgc acagtggccc aatgtggcca acggaagttt tataaagac aaatgtata tcaataaca tttataact tgc MAGNCSWEAH PGNRNRCPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCLGV P GNGLVWFFG FSIKRNFFSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVVCALLWVL SLLVTCLHNY FCVFLGRGAP GAACRHMDIF LGILLFLCC PIMVLPCLAL ILHVECRARR QRSAKLNHV ILAMVSVFLV SSIYLGIDWF LEWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RIWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEQCPPG NAS atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggaacctgg ggtcctgaca A cgtgatcgct cttgttcag gaagatgac tcttcggga tcttcgctga ggaggtggg tccctccgc cactgactgt ggtatcctg tctgcgtcca ttgtcgtcg agtctgggc aatgggctgg tctgtggat gactgtctt cgtatggcac gcaggtctc caccgtctgc ttcttccacc tggcccttgc cgatttcag ctctcactgt ctctgccat tgcctgtac tatattgtct ccaggcagtg gctcctcga gagtgggctt gcaaacctca catcacctt gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctctgt ggacctgtgc atctctgtcc tctacccctg ctggccctg aaccaccgca ctgtcagcg ggcgagctgg ctggcccttg gggtgtgct cctggccgc ccttctgtct ctgcacact gaaattccg acaaccagaa aatggaaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac ttctgtctgg gcttctctgg gcccttagca atcataggca cctgcgcca cctcatccg gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagggtt gctgctggtg ctgggtgagc ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct agcttgcct tgggctgtgt caacagcagc ctaacccctt tccctcact cctcgttggc agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga gagaggaggt ttctgtcat ctgtccctg ggaacgccc cccgggaatg a MNGVSEGTG CSDRQGVLT RDRSCSRKMN SSGCLSEEVG SLRPLTVIL SASIVGVLG P NGVLWMTVF RMARTSTVC FFHLALADEM ISLSLPIAMY YIVSRWLLG EWACKLYITF VELSYFASNC LLVFISVDRCL ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR TTRXWNGCTH CYLAFNSDNE TAQIWIEGVV EGHIGTIGH FLGLFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIFWS PBNVLLVHL WRRVLMKEIY HPRMLLIQA SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cctccacctc tgtctgccc tgcctcttgc tctagctgct gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgcc cagagcccca cgatgtcgcc </p>	Homo sapiens
484	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	<p> cagccctcct tgactgtgtc ccagccagca ccaggccagc agctcatcc ctgccattca gggtgttccc agagattcga tccctttaag gcattatcag tgagcaaatg tgaaggaaat gggtgtctgga agaaagtctt ggttcacatg ccttgtagct aagcttttct gcaacaacac tcccttcccc ccgtcgagtc atttggtgac tttgatggg ggatttctgg ttatgtcaag gctctggaga caggaagggc ctttgccgc cttgggtagt tgacctgctt ttctgactc cgggacagc cagtcctagg ctgctcccg gagccttga ggtatcccg aggccatgag gaccactgg gcagctctg gacagctct tggctccag cccaccgga aagtggacac tggtccgccc ctggccacct ggggactgg actgtgtgc acagtggccc aatgtggcca acggaagttt tataaagac aaatgtata tcaataaca tttataact tgc MAGNCSWEAH PGNRNRCPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCLGV P GNGLVWFFG FSIKRNFFSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVVCALLWVL SLLVTCLHNY FCVFLGRGAP GAACRHMDIF LGILLFLCC PIMVLPCLAL ILHVECRARR QRSAKLNHV ILAMVSVFLV SSIYLGIDWF LEWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RIWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEQCPPG NAS atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggaacctgg ggtcctgaca A cgtgatcgct cttgttcag gaagatgac tcttcggga tcttcgctga ggaggtggg tccctccgc cactgactgt ggtatcctg tctgcgtcca ttgtcgtcg agtctgggc aatgggctgg tctgtggat gactgtctt cgtatggcac gcaggtctc caccgtctgc ttcttccacc tggcccttgc cgatttcag ctctcactgt ctctgccat tgcctgtac tatattgtct ccaggcagtg gctcctcga gagtgggctt gcaaacctca catcacctt gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctctgt ggacctgtgc atctctgtcc tctacccctg ctggccctg aaccaccgca ctgtcagcg ggcgagctgg ctggcccttg gggtgtgct cctggccgc ccttctgtct ctgcacact gaaattccg acaaccagaa aatggaaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac ttctgtctgg gcttctctgg gcccttagca atcataggca cctgcgcca cctcatccg gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagggtt gctgctggtg ctgggtgagc ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct agcttgcct tgggctgtgt caacagcagc ctaacccctt tccctcact cctcgttggc agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga gagaggaggt ttctgtcat ctgtccctg ggaacgccc cccgggaatg a MNGVSEGTG CSDRQGVLT RDRSCSRKMN SSGCLSEEVG SLRPLTVIL SASIVGVLG P NGVLWMTVF RMARTSTVC FFHLALADEM ISLSLPIAMY YIVSRWLLG EWACKLYITF VELSYFASNC LLVFISVDRCL ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR TTRXWNGCTH CYLAFNSDNE TAQIWIEGVV EGHIGTIGH FLGLFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIFWS PBNVLLVHL WRRVLMKEIY HPRMLLIQA SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cctccacctc tgtctgccc tgcctcttgc tctagctgct gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgcc cagagcccca cgatgtcgcc </p>	Homo sapiens
485	160210	G Protein-Coupled	NM_004778	<p> cagccctcct tgactgtgtc ccagccagca ccaggccagc agctcatcc ctgccattca gggtgttccc agagattcga tccctttaag gcattatcag tgagcaaatg tgaaggaaat gggtgtctgga agaaagtctt ggttcacatg ccttgtagct aagcttttct gcaacaacac tcccttcccc ccgtcgagtc atttggtgac tttgatggg ggatttctgg ttatgtcaag gctctggaga caggaagggc ctttgccgc cttgggtagt tgacctgctt ttctgactc cgggacagc cagtcctagg ctgctcccg gagccttga ggtatcccg aggccatgag gaccactgg gcagctctg gacagctct tggctccag cccaccgga aagtggacac tggtccgccc ctggccacct ggggactgg actgtgtgc acagtggccc aatgtggcca acggaagttt tataaagac aaatgtata tcaataaca tttataact tgc MAGNCSWEAH PGNRNRCPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCLGV P GNGLVWFFG FSIKRNFFSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVVCALLWVL SLLVTCLHNY FCVFLGRGAP GAACRHMDIF LGILLFLCC PIMVLPCLAL ILHVECRARR QRSAKLNHV ILAMVSVFLV SSIYLGIDWF LEWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RIWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEQCPPG NAS atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggaacctgg ggtcctgaca A cgtgatcgct cttgttcag gaagatgac tcttcggga tcttcgctga ggaggtggg tccctccgc cactgactgt ggtatcctg tctgcgtcca ttgtcgtcg agtctgggc aatgggctgg tctgtggat gactgtctt cgtatggcac gcaggtctc caccgtctgc ttcttccacc tggcccttgc cgatttcag ctctcactgt ctctgccat tgcctgtac tatattgtct ccaggcagtg gctcctcga gagtgggctt gcaaacctca catcacctt gtgttctca gctacttgc cagtaactgc ctctctgtct tcatctctgt ggacctgtgc atctctgtcc tctacccctg ctggccctg aaccaccgca ctgtcagcg ggcgagctgg ctggcccttg gggtgtgct cctggccgc ccttctgtct ctgcacact gaaattccg acaaccagaa aatggaaatg ctgtacgac tgcacttgg cgttcaactc tgacaatgag actgcccaga ttgggattga aggggtcgt gagggacaca ttataggac cattggccac ttctgtctgg gcttctctgg gcccttagca atcataggca cctgcgcca cctcatccg gccaagctct tgcgggaggg ctgggtccat gccaaccggc ccaagggtt gctgctggtg ctgggtgagc ctttctttat ctctgtgct ccgtttaacg tgggtctgtt ggtccatctg tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct agcttgcct tgggctgtgt caacagcagc ctaacccctt tccctcact cctcgttggc agagatttcc aagaaaagt tttccagct tgcacttctg cctggcgag ggcgtttgga gagaggaggt ttctgtcat ctgtccctg ggaacgccc cccgggaatg a MNGVSEGTG CSDRQGVLT RDRSCSRKMN SSGCLSEEVG SLRPLTVIL SASIVGVLG P NGVLWMTVF RMARTSTVC FFHLALADEM ISLSLPIAMY YIVSRWLLG EWACKLYITF VELSYFASNC LLVFISVDRCL ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR TTRXWNGCTH CYLAFNSDNE TAQIWIEGVV EGHIGTIGH FLGLFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIFWS PBNVLLVHL WRRVLMKEIY HPRMLLIQA SFALGCVNSS LNPFLYFVVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cctccacctc tgtctgccc tgcctcttgc tctagctgct gtcaggagct A gactgcctcc agggctggaa tctgtgtctc cctctgtgcc cagagcccca cgatgtcgcc </p>	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgccccat cctggagcag atgagccgctc tccagagcca
cagcaaacac agcatccgct acatcgacca cgcggcccggtg ctgctgcacg ggcctgccc
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cctgtgaatc acctagggtt ctgttaagt gcagtcgat ccaggagccc gggcccggt
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gtcgggaagg cacacgggtt gcgtctccc ggaattcagt ttaccagat gatggggag
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tgagaagcac tgttccagcc tgccctcttc attagccaa tgcctactgc gtagacgct
tcattccaca atcttaagg gcagcttcta ttaccagctg agcacattct
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aagcagcagg ggtggcgctg gtcaagcact cgggaaacct ggggctaact aaatccaatg
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gctgtgtttg agctctgcag ccaggggacc gaaaagtgg tgtcaatgaa ttttgcttgg
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486	160210 G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	<p> ttttgtccac caaaggccag ggtcactgaa ggcttgcccc acagcaggtg ctgagcaaaag ggaacagtga ggtgcccagc tagctgcaga gccacctgt gttgacacct cgcacctgct ccctcccatc ccttccccct ttactcatag cacttcccc attgacacag tgggtgcattt tgcttggtta ttatgttttc tctccatcag aatgaaagct cctcgagggc agggacttgg gtctattgtc tgtattggcc ggtgcctagg attgtgcctg tatgcaacag gcaactcaata aataattttg ctgtagactg MSANATLKPL CPILQMSRL QSHSNTSIRY IDHAAVLLHG LASLLGIVEN GVILFVVGCR P MRQTWTTWV LHLALSDLLA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRC LQVVRPWAQ NHRTVAAHK VCLVLWALAV LNTVPYFVER DTISRLDGR MCYNNVLLN PGPRDRATCN SRQAALAVSK FLIAFLVPLA IIASSHAAVS LRLQHRGRRR PGRFVRLVAA VVAFAALCWG PYHVESLLEA RAHANPGLRP LVWRGLPEVT SLAFFNSVAN PVLVLTCPD MLRKLRSIR TVLESVLVDD SELGGAGSSR RRRTSSTARS ASPLALCSRP EEPRGPARLL GWLLGSCAAS PQTGPLNRAL SSTSS atgaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gcgtccgagc cgcactcctg cccacttgga tttggccact acagtgtggt gtagtctgctg atcttcgaga cagtgtgtat tgtgttgctg acatttctga ttattgctgg gaatctaaca gttatctttg cctttcattg tgcctcactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttggttcc tactctgtca cttctccact actccacagg tgtccacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgccttgctt gcatacagtg gtagcgttat cttgcataaa ccaagcctct tctctacaa ccaatgggtca ccccttgctg cttagagaatt tgcatatttt tgcattggat ctactcctgc ctaattttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgt ccacgtcttg gctcaccagt gcctatttta ctggccttat tgtttgctta ctttatgctc ctgctgctct tgttgctctg ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tcttccagag agactggaca cagccctgac cgtcgctacg ccattggtttt gtttaggata accagtgtat tttatatgct tgggtctccc tatataattt actttctctt agaaagctcc cgggtcttgg acaatccaac tctgtccttc ttaacaacct ggcttgcaat aagtaaatgt tttgtaact gtgtaataata cagcctctcc aacggcggtt tccggctagg cctccgaaga ctggttgaga caatgtgcac atcctgtatg tgtgtgaagg atcagggaagc acaagaaccc aaacctaggga aacgggctaa ttcttgctcc attga MNESRWTEWR ILNMSSGIVN ASERHSCPLG FGHSVWDVVC IFETVVIVLL TFLIIAGNLT P VIFAFHCAPL LHYYTTSYFI QTMAYADLFV GVSCLVPTLS LLHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDY LAITKPLSYN QLVTPCRLRI CIILIIWYSC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAFVVC FTYFHIFKIC RQHTKEINOR RARPPSHEVD SSRETGHSFD RRYAMVLFRI TSVFYMLWLP YIIYFLESS RVLDNPTLSF LTTWLAVSNS FCNCVIYSLS NGVFRGLLRR LFEINCTSCM CVKQDEAQEP KPRKRANSCS I </p>	Homo sapiens
487	160212 G Protein-Coupled Receptor GPR52	NM_005684	<p> atgaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gcgtccgagc cgcactcctg cccacttgga tttggccact acagtgtggt gtagtctgctg atcttcgaga cagtgtgtat tgtgttgctg acatttctga ttattgctgg gaatctaaca gttatctttg cctttcattg tgcctcactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttggttcc tactctgtca cttctccact actccacagg tgtccacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgccttgctt gcatacagtg gtagcgttat cttgcataaa ccaagcctct tctctacaa ccaatgggtca ccccttgctg cttagagaatt tgcatatttt tgcattggat ctactcctgc ctaattttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgt ccacgtcttg gctcaccagt gcctatttta ctggccttat tgtttgctta ctttatgctc ctgctgctct tgttgctctg ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tcttccagag agactggaca cagccctgac cgtcgctacg ccattggtttt gtttaggata accagtgtat tttatatgct tgggtctccc tatataattt actttctctt agaaagctcc cgggtcttgg acaatccaac tctgtccttc ttaacaacct ggcttgcaat aagtaaatgt tttgtaact gtgtaataata cagcctctcc aacggcggtt tccggctagg cctccgaaga ctggttgaga caatgtgcac atcctgtatg tgtgtgaagg atcagggaagc acaagaaccc aaacctaggga aacgggctaa ttcttgctcc attga MNESRWTEWR ILNMSSGIVN ASERHSCPLG FGHSVWDVVC IFETVVIVLL TFLIIAGNLT P VIFAFHCAPL LHYYTTSYFI QTMAYADLFV GVSCLVPTLS LLHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDY LAITKPLSYN QLVTPCRLRI CIILIIWYSC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAFVVC FTYFHIFKIC RQHTKEINOR RARPPSHEVD SSRETGHSFD RRYAMVLFRI TSVFYMLWLP YIIYFLESS RVLDNPTLSF LTTWLAVSNS FCNCVIYSLS NGVFRGLLRR LFEINCTSCM CVKQDEAQEP KPRKRANSCS I </p>	Homo sapiens
488	160212 G Protein-Coupled Receptor GPR52	NP_005675.1	<p> atgaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gcgtccgagc cgcactcctg cccacttgga tttggccact acagtgtggt gtagtctgctg atcttcgaga cagtgtgtat tgtgttgctg acatttctga ttattgctgg gaatctaaca gttatctttg cctttcattg tgcctcactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttggttcc tactctgtca cttctccact actccacagg tgtccacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgccttgctt gcatacagtg gtagcgttat cttgcataaa ccaagcctct tctctacaa ccaatgggtca ccccttgctg cttagagaatt tgcatatttt tgcattggat ctactcctgc ctaattttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgt ccacgtcttg gctcaccagt gcctatttta ctggccttat tgtttgctta ctttatgctc ctgctgctct tgttgctctg ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tcttccagag agactggaca cagccctgac cgtcgctacg ccattggtttt gtttaggata accagtgtat tttatatgct tgggtctccc tatataattt actttctctt agaaagctcc cgggtcttgg acaatccaac tctgtccttc ttaacaacct ggcttgcaat aagtaaatgt tttgtaact gtgtaataata cagcctctcc aacggcggtt tccggctagg cctccgaaga ctggttgaga caatgtgcac atcctgtatg tgtgtgaagg atcagggaagc acaagaaccc aaacctaggga aacgggctaa ttcttgctcc attga MNESRWTEWR ILNMSSGIVN ASERHSCPLG FGHSVWDVVC IFETVVIVLL TFLIIAGNLT P VIFAFHCAPL LHYYTTSYFI QTMAYADLFV GVSCLVPTLS LLHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDY LAITKPLSYN QLVTPCRLRI CIILIIWYSC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAFVVC FTYFHIFKIC RQHTKEINOR RARPPSHEVD SSRETGHSFD RRYAMVLFRI TSVFYMLWLP YIIYFLESS RVLDNPTLSF LTTWLAVSNS FCNCVIYSLS NGVFRGLLRR LFEINCTSCM CVKQDEAQEP KPRKRANSCS I </p>	Homo sapiens
489	160217 G Protein-Coupled	NM_005683	<p> atgagtcagc aaaacaccag tggggactgc ctggttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcga catccccacc ttcgtcctgg gcctgctcct caacctgctg </p>	Homo sapiens

Receptor GPR55	160217 G Protein- Coupled Receptor GPR55	NP_005674.1	gcatccatg gcttcagcac cttccttaag aacaggtggc cagattatgc tgccacctcc atctacatga tcaacctggc agtctttgac ctgctgtctg tgctctccct ccattcaag atggtctctgt ccaggtaca gtcccccctc cgtccctgt gcacctggt ggagtgcctt tactctgca gcatgtacgg aagcgtcttc accatctgtt tcatcagcat ggaccggtc ttggccatcc gttaccgctt actggtagc cactccggtt cccaggaag atctttggga tctgcatgca caatctgggt cctgggtgg aacggaagca tccctatcta cagtttccat gggaaagtgg aaaaatacat gtgcttcac aacatgtctg atgatactg gagcgcaag gtctcttcc cgtggaggt gttggcttc ctcctccca tgggcatcat gggcttctgc tgctccagga gcatccacat cctgctggg cgcagagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catcgagcc agcctggctg tattegtggt ctccttctc ccagtcacc tggggttctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaagc agagcatcag cttctcttg caattgtcca tgtgttctc caatgtcaac tgctgcctgg atgtttctg ctactactt gtcatcaaa aatccgcat gaacatcagg gccaaccggc cttccaggtt ccagctggtc ctgcaggaca ccagatctc ccggggctaa tgcgtcctgg atgtttctg ctactactt gtcatcaaa aatccgcat gaacatcagg gccaaccggc cttccaggtt ccagctggtc ctgcaggaca ccagatctc ccggggctaa	Homo sapiens
490	160217 G Protein- Coupled Receptor GPR55	NP_005674.1	MSQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLNL AIHGFSTFLK NRWPDYAATS P IYMINLAVFD LLLVLSLPFK MVLQVQSPF PSLCTLVECL YFVSMYGSVF TICFISMDRE LAIRYPLLVS HSGPPGRSLG SACTIWLVM TGSIPYISFH GKVEKYNCFH NMSDDTWSAK VFFPLEVFGF LLPMGIMGFC CSRSIHILLG RDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVNRNFIPEC RAKQISIFFL QLSMCFSNVN CCLDVFCYVF VIKEFRNIR AHRPSRVQLV LQDTTISRG	Homo sapiens
491	160219 G Protein- Coupled Receptor GPR35	NM_005301	atgaatggca cctacaacac ctgtggctcc agcgaacctca cctggccccc agcatcaag A ctgggcttctt agctctactt gggcgtctct ggtgtgctag gctgtgctg caacagcctg gcgctctggg tgcctctgtt ccgcatgcag cagtgagcgg agaccgcat ctacatgacc aacctggcgg tggccgacct ctgctgctg tgcaccttg ccttcgtgct gcactccctg cgagacacct cagacacgcc gctgtgccag ctctcccgagg gcatctacct gaccaacagg tacctgagca tcagcctggt cagggccatc gccgtggacc gctatgtggc cgtgcggcac ccgctgcgtg cccgcgggct gcgtccccc aggcaggctg cggcgtgtg cgcggtctc tgggtgctg tcctcggtc cctggtggt cgtggctcc tggggattca ggaggcgcc ttctgcttca ggagcaccg gcaaatc aactccatgc ggtcccgct gctgggattc taactgcccc tggcgtggt ggtctctgc tccctgaagg tggtagctg cctggcccag aggccaccca ccgacgtggg gcaggcagag gccaccgca aggtgcccag catggtctgg gccaacctcc tgggtgtcgt ggtctgcttc ctgcccctgc acgtggggt gacagtgcgc ctcgcagtg gctggaacgc ctgtgcccct cttggagacga tccgtcgcc cctgtacata accagcaagc tctcagatgc caactgctgc ctggagcga tctgctacta ctacatggcc aaggagtcc aggagcgctc tgcactggcc gtggctcccc gtgctaaggc ccacaaaagc caggactctc tgtgcgtgac cctcgccctaa	Homo sapiens
492	160219 G Protein- Coupled Receptor GPR35	NP_005292.1	MNGRYNTCS SDLTWPPAIK LGFYAYLGVL LVGLLLNSL ALWVFCRMO QWTETRIYMT P NLAVADLCIL CTLPFLVHSL RDTSDTPLCQ LSQGIYLTNR YMSISLVTAI AVDRYVAVRH PLRARGLRSP RQAAAVCAVL WVLVIGSLVA RWLVIGIEGG FCFRSTRHNF NSMRFPLLGE YLFVAVVFC SLKWTALAQ RPPTDVQAE ATRKAARMW ANLLVFVVCF IPLHVGLTVR LAVGWNACAL LETIRRALYI TSKLSDANCC LDAICYMYMA KEFQEASALA VAPRAKAHS	Homo sapiens

493	160221 G Protein-Coupled Receptor GPR27	NM_018971	QDSLCLVTLA	atggcgaacg cgagcgagcc ggggtggcagc ggcggcgccg agcgggccgc cctggggcctc A aagctggcca cgctcagcct gctgctgtgc gtgagccctag cgggcaacgt gctgttcgcg ctgctgatcg tgcgggagcg cagcctgcac cgcgccccgt actacctgct gctcgacctg tgcttgccg acgggctgcg ggcgctcgcc tgcctcccg cctcatgctt ggcggcgccg cgtcgcgcg cgcggcgccg ggcgccccgt tgcgctgctg gctgcaagct gctcgccctc ctggccgcg tctctgtctt ccacgcgcc ttctctgctgc tggcgctggg cgtcacccgc tacctggcca tgcgcacca ccgcttctat gcagagccgc tggcgccgctg gccgtgcgcc gccatgctgg tgtgcgcgc ctgggcgctg gcgctggccg cggccttccc gccagtgcg gacggcggtg gcgacgacga ggacgcgcg tgcgccccg agcagcgcc cgacggcgcc ccggcgccg tgggttctt gctgctgctg gccgtggtg tggcgccac gcacctgctc tacctccgcc tgccttctt catccacgac cgcgcgaaga tgcggccccg gcgcctggg ccgcgcgtca gccacgactg gacctccac ggcggcgcc cgcttgtggg catccggccc aactggacgg cgggcttcgg ccgcggccc acgcgcggc cgttgtgtgg caccggccc gcagggccgg gccgcggcg cgcgcgctc ctgctgcttg aagaattcaa gacggagaag aggctgtgca agatgttcta cgcgctcac ctgctcttcc tgcctctctg ggggccctac gtcgtggcca gctacctgcg ggtcctggtg cggccccggg ccgtccccc gccctacctg acggcctccg tgtggctgac cttcgcgcg gccggcatca acccgctcgt gtgcttccc ttcaacaggg agctgagggg ctgcttcagg gccagttcc cctgctgcca gagcccccg accacccagg cgaccatcc ctgcgacctg aaaggcattg gttatga MANASEPGGS GGGEAALGL KLATLSLLC VSLAGNVLFA LLIVRERSLH RAPIYLLLDL P CLADGLRALA CLPAVMLAAR RAAAAGAPP GALGCKLLAF LAALFCFHAA FLLGVGVR YLAIAHHRFY AERLAGWPCA AMLVCAAWAL ALAAFPFVL DGGDEDEDAP CALEQRPDGA PGALGFLLL AVVGATHLV YLRLLFFIHD RKMRRPARLV PAVSHDWFH GPATGQAAA NWTAGFGRGP TPPALVGIRP AGPGRGARL LVLEEFKTEK RLCKMFYAVT LLFLLWGPY VVASYLRVLV RPAVPOAYL TASVWLTFQA AGINPVVCFI FNRELRDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
494	160221 G Protein-Coupled Receptor GPR27	NP_061844.1		atgggtccctc acctcttgct gctctgtctc ctccccctgg tgcgagccac cgagccccac A gagggccggg ccgacgagca gagcgcgag ggcggccctgg ccgtgcccc tgcctcgccac ttcttctctt ggaacaacta cacttctcc gactggcaga acttgttggg caggaggcgc tacggcgctg agtcccagaa cccacgggtg aaagccctgc tcattgtggc ttactcctc atcattgtct tctcactctt tggcaacgtc tgggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcate gtcaacctgg cagttgccga cataatgac acgtgctca acacccctt cactttggtt cgttttgtga acagccatg gataattggg aagggcatgt gccatgtcag ccgctttgac cagtactgct cactgcactg ctacgactg acactgacag ccattgcgtt gcatgcccac caggtcatca tgcacccctt gaaaccccg atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttctt tcaactccac atgctatctg ccagaaatta ttacattca aatacagta ggacattgtg cgtccctctt gcctggcaga cttccctgag ccagctgacc tcttctgaa gtacctggac ttggccacct tcactctgct ctacatctct cccctcctca tcactctgtt ggcctacgct	Homo sapiens
495	160222 G Protein-Coupled Receptor GPR72	NM_016540		atgggtccctc acctcttgct gctctgtctc ctccccctgg tgcgagccac cgagccccac A gagggccggg ccgacgagca gagcgcgag ggcggccctgg ccgtgcccc tgcctcgccac ttcttctctt ggaacaacta cacttctcc gactggcaga acttgttggg caggaggcgc tacggcgctg agtcccagaa cccacgggtg aaagccctgc tcattgtggc ttactcctc atcattgtct tctcactctt tggcaacgtc tgggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcate gtcaacctgg cagttgccga cataatgac acgtgctca acacccctt cactttggtt cgttttgtga acagccatg gataattggg aagggcatgt gccatgtcag ccgctttgac cagtactgct cactgcactg ctacgactg acactgacag ccattgcgtt gcatgcccac caggtcatca tgcacccctt gaaaccccg atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttctt tcaactccac atgctatctg ccagaaatta ttacattca aatacagta ggacattgtg cgtccctctt gcctggcaga cttccctgag ccagctgacc tcttctgaa gtacctggac ttggccacct tcactctgct ctacatctct cccctcctca tcactctgtt ggcctacgct	Homo sapiens

496	160222	G Protein- Coupled Receptor GPR72	NP_057624.1	<p> cgtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtac tttgccctgc ggcgcaaaaa gaagaagacc atcaaatgt ttagctgtgtt gtagtcctc tttgccctct gctggttccc cctcaactgc tacgtcctcc tctgtccag caaggtcatc cgaccaaca atgcctcta cttgccttc cactggttg ccatgagcag cacctgctat aaccccttca tatactgtg gctgaacgag aacttcagga ttgagctaaa ggcattactg agcatgtgtc aaagacctcc caagcctcag gagcacgggc aacctcccc agttccttcc ttcagggttg cctggacaga gaagaatgat gcccagagg ctcctcttg caataacctc ctgcccacct cccaactcca gtctgggaag acagacctgt catctgtgga acccattgtg acgatagtt agaagaggtt gggaagagg agtggagggt gtctgtctcc acctgaggca gggaaagaga gcctattctc acacatgac ttccagagtgc tggaaacaca ctctgcaga aggctgtagg actcttgaat tcctaggaaa ctgtccagcc tcctagcccc atgtgatgtg aaaactaaa ggcaccacca actagacatg tttcataaa tcccatcta agaaacactg ggaggcacag cagcctgtat ctctgaggaa gaggagcag gacaacgttg gcccagatgg gggtgaatc attcaactgc ctccatctgt ggggacagct ctgcttaca gcccttcta ctagactgag catccgaag gagacctaaa tcatacttg ggtgtgtga cccagatgca cagagctctg cttgaaacag gtacacgggc cagggaaatg ccagcaa MVPHLLLLCL LPLVRATEPH EGRADEQSAE AALAVPNASH FFSNNYTF DWQNFVGRRR P YGAESQNTV KALLIVAYSF IIVFSLFQNV LVCHVIFKNQ RMHSATSLFI VNLAVADIMI TLINTPFTLV RFVNSTWIFG KGMCHVSREA QYCSLHVSAL TLTAIVADRH QVIMHPLKPR ISITKGVIYI AVIWNATFF SLPHAIQCKL FTEKSEDIY RSLCLDPPE PADLFWKYLD LATFILLIYL PLLIISVAYA RVAKKLWLCN MIGDVTTEQY FALRRKKKKT IKMLMLVVVL FALCWFLPNC YVLLLSKVI RTNNALYFAF HWFAMSTCY NPFIYCWLE NFRIELKALL SMCQRPPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANNL LPTSQIQSGK TDLSSVEPIV TMS </p>	Homo sapiens
497	160223	G Protein- Coupled Receptor G2A	NM_013345	<p> ggagggggtg cgaggctagc cagcaggcg gggccctggg tcattttaa ctctcagagt A gaacgtcttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaaatatgc caggagaggaa ggtgagcaag ggacacgaca ctcaccggga taaacccaac aagcgacgcg aggcgtgtgg gaaacccgan cctgcacac cgccggggga aggtggggcn ccgccaccac cgtggaagaa cagcgcggan gcctcccaag agatgagacg gaactgccgt gagatccagc aatnccnact gtgggtctga cccaggatan cggaagacag ggaactgaac agcctcctc atgttcttga caccgtcatt ctacagcagt cagtaaggc acagaggcag ccgagcgtct gtcagcagag tcgtggctga gcagaacacg ccacacgcca cagccacac gccacacgtg caggattgct caagatgaa ggcacagtg gaatatatat atatatatt attttggcg agaccttga ggacacactg aatacaatgg aataccatcc cgcctttgaa aggaaggga atcttggcac acgctgaac aggagggagc ttgaggacac tgtgtgtagt ggagcacgtg agacacggaa ggacacacgc tgaagacacg cagagatgcc caccacgtg gggaggtgac agggagacc agcgacaga gacaaagtgg aatggaggcc tgggggctgg gagcaaatgc ggaagcagtg ctctctggg cagagtctcc gtttggggaag atgagaaggt tctgccgacg atgtctggcg atgttctcag aagaatgtga atgtgccccaa tgctactgaa aaacggttac atggaaacg ccacccagc gaccaccact gccccgtggg cctccctggg cctctccgc aagacctgca acaacgtgtc ctctgaagag </p>	Homo sapiens

498	160223	G Protein-Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tcttggtcgt ggtgtacag cgggtgtgca cgtggggggg gccgggcaac</p> <p>tgcctgactg cgtggctggc gctgctgag gtactgcagg gcaacgtgct ggcgctctac</p> <p>ctgctctgcc tggcaactctg cgagctgctg tacacaggca cgtgccact ctgggtcctac</p> <p>tatatccga accagaccg ctggacccta ggcctgctgg cctgcaaggt gaccgcctac</p> <p>atcttcttct gcaacatcta cgtcagcctc ctcttctgt gctgcatctc ctgcgaccgc</p> <p>ttcgtggccg tgggtacgc gctggagat cggggccgc gcccgagg gaccgccatc</p> <p>ctcatctcg cctgcatctt catctcgtc gggatcgtt actaccgggt gtccagagc</p> <p>gaagacaag agactgctt tgacatgctg cagatggaca gcaggtatgc cgggtactac</p> <p>tacgccagggt tcacggttgg ctttgccatc cctctctcca tcctgacctt caccaccac</p> <p>cggattttca ggagcatcaa gcagagcatg ggcttaagcg ctgcccagaa ggccaagggtg</p> <p>aagcactcgg ccctcggtt ggttgcctc ttctagtct gcttgcccc gtaccacctg</p> <p>gttctcctcg tcaagccgc tgccttttc tactacagag gagacaggaa cgccatgtgc</p> <p>ggcttgagg aaaggctgta cacagcctc gtggtgttct tgtgctgtc caggtgaac</p> <p>ggcgtggctg acccattat ctacgtgctg gccaggaac attcccgcca agaagtgtcc</p> <p>agaatccata aggggtggaa agagtgtcc atgaagacag acgtcaccag gctcaccac</p> <p>agcagggaca ccgaggagct gcagtcgcc gtggcccttg cagaccacta cacttctcc</p> <p>agggccctgc accaccagg gtccactgc cctgcaaga ggcctattga ggagtcctgc</p> <p>tgaagccact gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt</p> <p>cctgtgact gagccacca gccacagtgc ccatgtcccc tctggaagac aaactaccaa</p> <p>ttctcgttc ctgaagccac tccctcctg accactggcc ccangctttc ccacatggaa</p> <p>ggtggctgca tgccaagggg aagagcgaca cctccaggct tccggagacc canagagcat</p> <p>gtggcangca gtggggctc ttcatcata nccgtcctgg gtcgctctctt tggtgtggg</p> <p>cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcatc agtggcgatg</p> <p>actttattg cggagcattt ctgcaagcgt tgcctggatg cgggtgtgca ttgtgggccc</p> <p>tctgggctcc tgcctcaaaa tgtcagtga caccatgctg gaagtacca tcactgtggc</p> <p>agcgccagg aaggcatagg gcanctacc acctccaang gggcangcgc cctcatctgg</p> <p>ggttggtg</p>	Homo sapiens
499	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	NM_004767	<p>cgtgggctgg gggcccaaga cgtgggctgg ctgctctctg ctcatccagc catgcggtgg</p> <p>ctgtggcccc tggctgtctc tcttgctgtg attttgctg tggggctaaag cagggtctct</p> <p>gggggtgccc cctgcaact gggcaggcac agagccgaga cccaggagca gcagagccga</p> <p>tccaagagg gcaccgagga tgaggaggcc aagggcgctg agcagtatgt gcctgaggag</p> <p>tggcgaggat acccccgcc cattcacct gctggcctg agccaacaa gcccttggtg</p> <p>gccaccagcc ctaaccccga caaggatgg ggcaccccc agagtggga ggaactgagg</p> <p>ggcaatctga cagggggcacc agggcagagg ctacagatcc agaaccctt gtatccggtg</p>	Homo sapiens

500	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	MRWLWPLAVS PEEWAEPYRP YPVTESSYSA FFCLPIVIFN PIERCQSILA LVMTYQNARM WVGLTVVYAF RPLGQAFLLDC	LAVILAVGLS IHPAGIQPTK YAIMLLALV EITKQRLDGD KLAVIIVGSM WVYFGYFCL CTLPENVCNI CCCCCEECG	RVSGGAPLHL PLVATSPNPD FVAGIVGNLS VSCRVPFME TIAVPELLW PILETVTCQL VWAYLSTELT GASEASAANG	GRHRAETQEQ KDGGTDSGQ VMCIVWHSYY VSSLGVTTFE QLAQEPAPTM VTWRVRGPPG RQTLDLLGLI NQSTFFFKGA SDNKLKTEVS	QSRSKRGTED ELRGNLTGAP LKSAMNSILA LCAIGIDRFH GTLDSICMKP RKSECRASKH EQCESQLNST ITPVLLLCIC SSIYFHKPRE	EEAKGVQQYV GQRLQIQNPL SLALWDFLVL VATSTLPKVR SASLPESLYS EQCESQLNST ITPVLLLCIC SPPLLPLGTP	Homo sapiens
501	160225	Sphingolipid Receptor Edg6	NM_003775	gagtcagccc ccaacagctg ccggctggcc ggctggccgc ccacatgcgg gctcacgggc ggcgcgcgc cttcagccctg gagcggggcc cgcgctgctg ctccagcctt	ccggggggag gcggccggcg ggcgccgggg agctgcctgg tcgcgacgct gggcctacc cagtggttcc ctcttcaactg accaagacca gggatgctgc ctgcctctct	ccatgaacgc ggcacagccg ggccggagga tggctctgga gggtctacta tggccaaagt tacgggaggg caggggagcg cggcgctcta cttgcctggg actccaagcg	cacgggggacc gctcattgtt tggcgccctg gaacttgctg ttgcctgggt gctgctgtcg ctgtctcttc cagggcccgca accgcctccac cttggccacc cggcttctac ctggaactgc ctacatcctc	ccggtggccc ctgcactaca ggggccctgc gtgctggcgg aacatcacgc ggggcccgca ccgcctccac atgggtggcg ggctctgct ggcctctgct ctgtgcgcct ttctgcctgg	A Homo sapiens	

502	160225	Sphingolipid NP_003766.1	Receptor Edg6	<p> cggcgctctg gccaccatca tgggcctcta tggggccatc ttcgcctgg tgcaggccag cgggcagaag gcccacgcc cagcgcccg ccgcaaggcc cgcgcctgc tgaagacggt gctgatgatc ctgctggcct tcttggtgtg ctggggccca ctcttcgggc tgcctgctgc cgacgtcttt ggtccaacc tctgggccc gtagtacctg cggggcatgg actggatcct ggccctggcc gtcctcaact cggcggtcaa ccccatcatc tactcctcc gcagcaggga gggtgtcaga gcttgctca gcttcctctg tctcggtgtg ctcgggctgg gcatgcgag gcccggggac tgcctggccc ggccctcga ggtcactcc ggagcttcca ccaccgacag ctctctgagg ccaagggaca gctttcgcg gctccgctcg ctcagctttc ggatgcggga gcccctgtcc agcatctcca gctgcggag catctgaagt tgcagctttg cgtgtggatg gtcagccac cgggtgcgtg ccaggcagg cctcctgggg tacaggaagc tgtgtgcacg cagcctcgcc tgtatgggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaa gaggtaacca ccccacctcc cgttaggagc agagagcacc ctggtgtggg ggcgagtgggt tccccacaac ccgcctctcg tgtgattctg gggaagtccc ggcctctc tgggcctcag tagggctccc aggctgcaa9 ggggtgactg tgggatgcat gccctggcaa cattgaagt cgtatcattggt aaaaa </p>	Homo sapiens
503	160228	T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p> VLENLLVLA ITSHMRSRW VYCLVNITL SDLLTGAAYL ANVLISGART FRLAPAQWFL REGLLFTALA ASTFSLFTA GERFATMVRP VAESGATKTS RVYGFGLCW LLAALLGMLP LLGNWCLCAF DRCSLLPLY SKRYILFCLV IFAGVLATIM GLYGAIFRLV QASGQKAPRP AARRKARLL KTVLMILLAF LVCWGFLFL LLADVFGSNL WAQEYLRGMD WILALAVLNS AVNPITYSFR SREVCRAVLS FLCGCLRLG MRGPGDCLAR AVEAHSGAST TDSSLRPRDS FRGSRSLFR MREPLSSISS VRSI </p> <p> atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccattgtt A tacatctttg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtctttc ctgcaaccga agaaggaaag tgaactagga atttacctct tcagtttgtc actatcagat ttactctatg cattactct cctttatgg atgtattata cttggaataa agacaactgg actttctctc ctgctctgtg caaaggaggt gcttttctca tgtacatgaa gttttacagc agcacagcat tccctcactg cattgccgtt gatcggtatt tggcgttgtt ctaccctttg aagttttttt tccctaaggac aagaagaatt gcactcatgg tcagcctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagttgt tgaatattgc gatgccgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca actgtttcag gacgtgtaca ggttatgcaa tacctttggt caccatcctg atctgtaacc ggaagtcta ccaagctgtg cggcacataa aagccacgga aaacaaggaa aagaagagaa tcataaaact actgtcagc atcacagtta cttttgtctt atgctttact ccctttcatg tgatgttgtt gattcgtgc attttagagc atgtgtgaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atgtatagaa tcacggttgc attaacaagt ttaaatgtg ttgctgatcc aattctgtac tgttttgtta ccgaacacagg aagatatgat atgtggaata tattaaaatt ctgcactggg aggtgtataa catcacaag acaagaaaa cgatacttt ctgtgtctac aaagatact atggaattag aggtccttga gtag </p>	Homo sapiens

[illegible]

506	160300	Encephalopsi n	NP_055137.1	MYSGNRSGGH LVLVLYXFKQ GSLFGIVSIA DLVHGLGTV IQVIKILXE NTVYNPIYV KKKVTFNSSS	GYWDGGAAG. RLRTPHLLL IRVVHARVIN DWKSKDANDS KKLAKMCFLM FMIRKFRSL IIFIITDES	AEGPAPAGTL VNISLSDLV IRVFLGVIAH IFTFVLCWMP LQLLCLRLR LSVDDSDKTI	SPAPLFSPGT SLFGVTFTFV FSWAWRAITH YIVPLGVIAH LVVICFLVNV QORPAKDLPA GVQSLMLIQV	YERLALLLGS SCLRNGWVWD IWLYSLAWAG CYGHILYSIR GHGHLVTPTI AGSEMQIRPI RPL	IGLLGVGNL P TVGCVWDGFS APLLGWNRYI MLRCVEDLQT SIVSYLFAKS VMSQKDGDRP	Homo sapiens
507	160312	Sphingolipid Receptor Edg5	NM_004230	atgggcagct accaaagaga gtcatcctct aacagcaagt ctggcaggcg acgcctgtgc ttcagcctcc ggcagcgaca gtcctcggtg actgtcctgc atcctgtttg gtgcacatgg gtctttatcg gtccactcct tcctgtctca cgggcgacctg cgggcgacct ccacgctcac mgslsyseyin	tgtaactcga cgctggaac gttgcgccat tccactcggc tggccttcgt agtgttttgc tggccatcgc agagctgcgc gcctgcccac ctctctacgc ccatcgtggc cgcgcccgca tctgtgtgct gcccgatcct accccgatcct agtgctggcg acctcctgac ccacgtttct pnkqvehyny	gtacctgaac gcaggagacg tgtgttgaaa aatgtacctg agccaatacc ccgggagggc cattgagcgc catgcttctg ccttggctgg caagcattat cctgtacgtg gacgtcagcc tctgtcgttc gcccgccttc ctacaaagcc ctacacgtgg gccgggggtg actccgcagc ggagggcaac tketletqet	cccaacaagg acctcccgcc aaccttctgg tttctgggca tctgtctcgt ttgtcctcca cacgtggcca ctcatcgggg aactgcctgg gtgtgtgctg cgcatctact ctgtctcaaga agcactatccc cactactttt acctgcggcg ggggtgtcaag tccagctccc acggtggtct	gcccaagaac aggctggcctc tgctcattgc acctggcgcg ctcctgtcac ggcctgtgtc tgctgtctc ttgccaaagt cctcgtggct gccacctcga tggtgacct cgctggctcg cgtgtcaccat ttctggacta tgccgttccc tgcccgctc acctgcggcg gacggaggcg tggagagggg ga	ctataattat A ggccttcac ggtggcccg ctccgatcta gctgaggtg ggcctgtgtc tcacgtctc ttgccaaagt cctcgtggct gccacctcga tggtgacct cgctggctcg cgtgtcaccat ttctggacta tgccgttccc tgcccgctc acctgcggcg gacggaggcg tggagagggg catgcacatg	Homo sapiens
508	160312	Sphingolipid Receptor Edg5	NP_004221.1	nskfhsamyl flllaiaier tllplyakhy vfivcwlpaaf	flgnlaasdl hvaiakvkly vlcwvtifsi sillldiyacp	lagvafvamt gldksrml illaivaly vhscpilyka	tsrqvasafi llsgsvtlrl ligaswlisl riycvvrssh hyffavstln	vilccaive tpvqwfareg vlggplplgw admaapqtl sllnplviytw	nllvliavar P sasitlsasv nclghleacs llkvtvtivlg rsrdlrrevl tvv	Homo sapiens
509	160314	G Protein-Coupled Receptor GPR103	AF411117	atgatctgct ggcattgtat gcccaactgc aacgtgacgc gagctgcccg gcactctttg gtcaccaca	gcagtgctct tagcaaaact ggggaatgt aggcgcttaa ggagcgagtt gacgcgccc gcaatgctct tctttatctg	gagccctagg atcacatagac tagggcctcg cattaccocg catcgctctg gctggccctc gtgttcttac ctccttggcg	attcatcttt atcgctactac cattgcggtg gagcagttct taccgctgc tgctcaccc gtggtgacct ctcagtgacc	tagcctgact A ctacgttgt cgccgcgctc ctcggtgtct gacgcctc gcgtgctcat cttcgacctg gcagcaaggc catgcgcacc tgctcatcac	Homo sapiens	

510	160314	G Protein- Coupled Receptor GPR103	ENSMPT2217 53	<p>atccccgtca ccattgctcca gaacatttcc gaaaactggc tgggggggtgc tttcatttgc</p> <p>aagatgggtgc catttgctcca gtctaccgct gttgtgacag aaatcctcac tatgacctgc</p> <p>attgctgtgg aaaggcacca gggacttgtg catcctttta aaatgaagtg gcaatacacc</p> <p>aaccgaaggg ctttcacaat gctagggtgtg gtctggctgg tggcagtcac cgtaggatca</p> <p>cccatgtggc acgtgcaaca acttgagatc aaatatgact tccatatga aaaggcaacac</p> <p>atctgtgctt tagaagagtg gaccagccct gtgcaccaga agatctacac caccctcatc</p> <p>ctgtcatcct ttcctctctg cctcttatgg aagaagaaac gagctgtcat tatgatgggtg</p> <p>acagtgggtg ctccttttgc tgtgtgctgg gcaccattcc atgttgtcca tatgatgattt</p> <p>gaatacagta attttgaaaa ggaatatgat gatgtcaca tcaagatgat ttttgcctatc</p> <p>gtgcaaatga ttggattttc caactccatc tgtaatccca ttgtctatgc atttatgaat</p> <p>gaaaacttca aaaaaaatgt tttgtctgca gtttgttatt gcatagtaaa taaaaccttc</p> <p>tctccagcac aaaggcatgg aaattcagga attacaatga tgcggaagaa agcaaaagtgt</p> <p>tccctcagag agaattccagt ggaggaaacc aaaggagaag cattcagtg tggcaacatt</p> <p>gaagtcaaat tgtgtgaaca gacagaggag aagaaaaagc tcaaacgaca tcttgctctc</p> <p>tttaggtctg aactggctga gaattctcct ttagacagtg ggcattaa</p>	Homo sapiens
				<p>RVGDGSLRT IHGEMSKIA RKKRAVIMM VTVALFAVC WAPFHVWHM IEYSNFEKEY</p> <p>DDVTIKMIFA IVQIIGFSNS ICNPVYAEM NENFKKNVLS AVCYCIVNKT FSPAQRHNS</p> <p>GITMRRKKAK FSLRNPVEE TKGEAFSDGN IEVKLCEQTE EKKLKRHLA LFRSELAENS</p> <p>PLDSG</p>	
511	160317	Neuropeptide FF 2 Receptor	NM_004885	<p>tctggagcca agtaatgggtg atactgatgc ttccttttct ttgcccgcgt cggattctga A</p> <p>gtttcacaaag aatgtacctg ggtgcccctt agcgggatat gaatagcttc ttcggaacct</p> <p>cagcggccag ctggtgcttc ctggaagtgt agctctcatc tgcaaccggac aaggaggcgg</p> <p>ggaggagcag cagagcactc agcgtccagc agcgcggcgt gccagcctgg agcggaaagcc</p> <p>tggagtggag caggcagtc cggggggaca gacgtcggct gggattgagc cggcagagctg</p> <p>cgaaaaagtag ctggagccgg agcagggaca gaacctgttg ctgcagacgg gcttgggtga</p> <p>ttctggttcc tgcgcgcgac agggctcgcc gggagaggtt catcatgaat gagaaatggg</p> <p>acacaaactc ttcagaaaaac tggcatccca actactatct tcaccagcct caagtggcag</p> <p>tgtactcaga tattaatatt acctatgtga actactatct tcaccagcct caagtggcag</p> <p>caatcttcat ttttctctac tttctgatct tctttttgtg catgatggga aatactgtgg</p> <p>tttgctttat tgtaatgagg acaaacata tgcaacacagt cactaatctc ttcactctaa</p> <p>acctggccat aagtgttga ctagtggca tattctgcat gcctataaca ctgctggaca</p> <p>atattatagc aggatggcca tttggaaaaa cgatgtgcaa gatcagtgga ttggtccagg</p> <p>gaatatctgt cgcagcttca gtctttactg tagttgcaat tgcgttagat aggttccagt</p> <p>gtgtgggtcta cctttttaa ccaagctca ctatcaagac agcgtttgtc attattatga</p> <p>tcatctgggt cctagccatc accattatgt ctccatctgc agtaagtta catgtgcaag</p> <p>aagaaaaata ttaccgagtg agactcaact ccagaaataa aaccagtcca gtctactggt</p> <p>gcccgggaaga ctggccaaat caggaaatga ggaagatcta caccactgtg ctgttttgca</p> <p>acatctacct ggctccctc tccctcattg tcatcatgta tggaggattt ggaatttcac</p> <p>tcttcagggc tgcagttcct cacacaggca ggaagaacca ggacagtggt cactgtgtgt</p> <p>ccaggaaaaa gcagaagatc attaagatgc tcctgattgt ggcctgctt tttattctct</p>	Homo sapiens

512	160317 Neuropeptide NP_004876.1 FF 2 Receptor	catggtgccc cctgtggact ctaatgatgc tctcagacta cgctgacctt tctccaaatg aactgcagat catcaacatc tacatctacc cttttgcaca ctggctggca ttcggcaaca gcagtgtcaa tcccatcatt tatggtttct tcaacagagaa tttccgcctg ggtttccaaag aagctttcca gctccagctc tgccaaaaa gagcaaaagcc tatggaagct tataccctaa aagctaaaaa ccatgtgctc ataaacacat ctaactcagct tgtccaggaa tctacatttc aaaacccctca tggggaacc ttgctttata ggaacagtgc tgaaaaaccc caacaggaat tagtgatgga agaattaaaa gaaactacta acagcagctga gatttaaaaa gagctagtgt gataatccta actctactac gattatata tcttaaatcca ttgctttttg tggctttgca cttcaaat ttcaagaat gtctaaata aaacattttac tgaaagccct ctctggcaaa aaaattaaaa ataaacaaaa atggtcataa gatcataaac aatcttatgt tgtataaaaa tacgtagagt gacttagaca tgtttgcatg aataaatata tttctagaga acagttaaaa aaaaaaaaaaaa	Homo sapiens
513	160324 G Protein-Coupled Receptor GPR86/GPR94/P2Y13	LNLSRQTAKS SWSRSRDRTS SAPDKEAGRE RRALSVQQRG GPWMSGGLEW SRQAGDRRR P VNDTKHHLYS DINITVYNY LHQPQVAAIF IISYFLIFFL CMGMNTVVCF IVMRNKMHMT VTNLFILNLA ISDLLVGIFC MPITLLDNII AGWPFEGTMC KISGLVQGIS VAASVFTLVA IAVDRFQCW YPFKPKLTIK TAFVIIMIY YTTVLFANIY LAPISLIFR YGRIGISLFR AAVPHTGRKN KTSPVYWCRE DWPNQEMRKI YTTVLFANIY VALLFILSWL PLWTLMLMSD YADLSPNELQ IINIYIYFPA QEQWHVVSRL KQKIIKMLLI VALLFILSWL NFRGFQEF QLQICQKRAK PMEAYTLKAK SHVLINTSNQ LVOESTFQNP HGETLLYRKS AEKPPQELVM EELKETNSS EI aacagtattt tcttttcaa cacatctatt gaaagtgttg gataaatgca ggatgttaata A atgctataaa cataaagtct gtttttaaaa aatagcatat gaaaatcatg aagggtcttt tgttttcttt tgtttgtata tatgtttatt gtaaacaggt gacactgaa gcaatgaaca ccacagtgat gcaaggcttc aacagatctg agcgtgccc cagagacact cggatagtag agctggtatt ccagccctc tacacagtgg ttttttgac cggcatcctg ctgaataact tggctctgtg ggtgtttgtt cacatccca gctcctccac ctcatcatc taccataaaa acactttggt gccgacttg ataatacac tcatgcttcc ttttcttcc ctctctgact cacactggc accctggcag ctacagagctt ttgtgtgtcg tttttcttcg gtgatatatt atgagaccat gtatgtggc atcgtgctgt tagggtctat agcctttgac agattcctca agatcatcag accttgaga aatattttc taaaaaac tgtttttgca aaaaacggtct caatctcat ctggttcttt ttgttcttca tctcctgccc aaatatgac ttgagcaaca aggaagcaac accatcgtct gtgaaaaagt gtgttctctt aaagggtcct ctggggctga aatggcatca aatggtaaat aacatatgcc agtttatttt ctggactgtt tttatcctaa tgcttggttt ttatgtggtt attgcaaaa aagtatatga tcttataga aagtccaaaa gtaaggacag aaaaaaac aaaaagctgg aaggcaaatg atttgtgtc gtggtgtctt tctttgtgtg ttttgctcca tttcattttg ccagagtccc atatactac agtcaaacca acaataagac tgactgtaga ctgcaaaatc aactgtttat tgctaaagaa acaactctct ttttggcagc aactaacatt tgtatggatc ccttaataata cataattctta tgtaaaaaat tcacagaaaa gctaccatgt atgcaaggga gaaagaccac agcatcaagc caagaaaaatc atagcagtca gacagacaac ataactttag gctgacaact gtacataggg ttaacttcta	Homo sapiens

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p> tttattgatg agacttcggt agataaatgtg gaaatcaaat ttaaccaaga aaaaaagatt ggaacaaatg ctctcttaca ttttattatc ctggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccatta ctaagagaat gcaacaggat acaaatggcc actagaggtc attattctt tctttctttt tttttttttt aatttcaaga gcatttcaat ttaacattht ggaagaact agggagaaac gtatatccct acaaacctcc cctccaaaaca ccttttcaca tctttttcca caattactg aacactactg cttttgtgcc ccttaaatgt agatatgtgc tgaagaataa aaaaaagcc caactcttga agtccattgc tgaaaactgc agccaggggt tgaagggtat gcagacttga agagtctgag gaactgaagt gggtcagcaa gaccttgaa atcctgggt aaggattttc tcttacaat tacaacagc ctctttcaca ttacaataat ataccatagg aggcacaaag accattatta agccactttg cttaacacctt aagtgtgtac aattcaagt tgagaatgct gtgttaacta ttctttggaa ttctccttct gtccagcaaa tactctaag atggttaaac atggcaccta ctacgcaatg ccttccttga ccacaacccc tatccccctg cccacacctc ctcattaaaa acaataactt ctactgtttg ggtgtgtgat aggtttctca atgcagatct cctttttcta gttagctata ttcttgactg catccgctaa aatgtttaa gcttcttgag agacagacat gccagatttt cttgttatct ccataatgc gacctacagt ccatggtcta cagatgtttt aatagaat gctattctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatattg ggagattttt caaaggatgg tgacctgct tgtatttatt tacccttggt tttttcttg catccttctg tgattcaaaa aagtaaaatg tggctttctg aaatgatgga taagagtcta catccttctag aaaaaataca taaaggagta gttaaagctct gtaaatgtgc cagagctcc aacacgacca tcgtgggtg aggccacgt tttcttccat ggcctcaaa ggcctagaac ttgcctacct tctggcctt acctcctagc tacttatcca tctcttgaac ttatactct tgtataaatt tctaaacttc agaaaatgcc atactctgt ttggcaccac acatgtatat ttccccctgg tacacttga agactcttat ccatctgtga aacctatgt tgtcatcact tgggtccatga aatattacct ggccaatgc ccacatcac ctcaaaccca atcacccct cctctgtatg ctgtcacacc tatattatta aacttatcac attgcatgtt aattacttcc tgacctttgt atctactctt ttagtaaatg atgtatatat ctgaaaggag agattgtttc attgtgcaat caataaatgt ttgataaaat aaagccc </p>	Homo sapiens
515	160329	Proteinase- Activated Receptor 4	NM_003950	<p> MNTVMQGFN RSERCPDTR IVQLVFPALY TVVLTGILL NTLALWVFVH IPSSTFIY P LKNTLVADLI MTLMLPKIL SDHLAPWQL RAFVCRFSSV IFYETMYVGI VLLGLIAFDR FLKIIIRPLRN IFLKKPVFAK TVSIFIWFFL FFISLPNMIL SNKEATPSSV KKASLKGPL GLKWHQMWN ICQFIWTVF ILMVIFYVVI AKKVYDSYRK SKSKDRKNK KLEGKVFVVV AVFFVCFAPF HFARVPYTHS QTNKTDCLRL QNQLFIAKET TLFLAATNIC MDPLIYIFLC KKFTKLPCM QGRKTTASSQ ENHSSQTDNI TLG ctccccaggg ctggctggca agcggccctg gtgggtctgc gggggcaggg gcagccttcc A tggtttatct ccaccggcg gatctgctcg tccgcctcgg ctceagaagc tggggctcag ggtccggcga ggcaggagc ctgaggccac agcccagagc agcctgagtg cagtcagtgtg ggggagactg ctctgtggc cctgtgtgct ggggttcagc agtctgtggt gcacccagac cccagcgtc tacgacgaga gcgggagcac cggaggtggt gtgtacagca cgccctcaat cctgcctgcc ccccggggt acccaggcca agtctgtgct aatgacagt acacccctgga gctcccgac agctcaggg cactgcttct gggctgggtg cccaccaggc tgggtccccg </p>	Homo sapiens

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516	160329	Proteinase- Activated Receptor 4	NP_003941.1	<p> tggggctggg gctgcatcc ctggagactc actgcaagtt cctgcccagg aggtgaggg caccatccc tcaagtggccca atgctgtggc cccaccaggc ccagagccctg gttggccatt ctcatgccc cagcttctg gctttgggat gtctcttgag caaccagaat agcaccacca actctgctcc ccaaaaccca tcaatagcac ggctcagcct cctgctatcc cctgactgct gggacccctc gcttccctc ctctcacctg caggtgctgc cttcttttca cttctgtca atgtcaccag ggataaggtg ggacaatgg gggtgggggt ggacagtgtg tgcggggggg ttcgggtgct gcagacctgg aactcccttc tggcaggatg ttggcagccg gttgtaagcc ttgcacggga cagaccacac ccaccgcaac ctcatccctt cagcaataac cacatccact ctcaaccccg tccccttgc actgaccaca cccacccctt tgggcccgc ccccgccact gaacactccc gccctcaacc ccgacccctc cgcactacc tcccctcgc cgtcagacc cgccctcacc acactgacca cctcaaccc attgcccga gtcccacca cagtgaccac acctcactg gctcgccct gccccagc cccgcccctc cccgctgacc gctcctccag ccccgccctc gcacttacca ctcccagc cccgcccctc cccgctgacc gctcctccag ccccgccctc ccgtacagg cagagcgccc gccacccctc atgctgcgtt cctcgtactt tacgttgcc cctcctctgc caagccccc cgggagccct cctcgccgtc cagaggtggg agtcgggggtg tggcaggccg cgggtggggg cggcagtgcc tccgcccact caccgggccc cggggcaggg ggcgctcca ctctgttgca cgcgggtccg gcgcacagt cccgggagag tgggctgtgc gtcgtgact ttagaagcg agtggcctcg aaggtacag gacagaggtg gcgggtgacc aagtgcagg gcgacgggtc agggaccggg ccgggcccgg ggtgcgggag cgcgggacct ccgggttcgt agtagtcga caggagact ggcagcccg agtccctgccc caccacgac tccgggagag cagggaaccg cagcacgtc aggcacggc tggggatctg tggggcagcg gcgggcgag gctcgaccg gccgaggag cccggggcgc tgagtcagg ccagaactg gctgatttca gggataccca ggacgctga aacacagaag aacgtgact ccatcttctt ttttctttt actttcttt ttttttttt tctctgagac agagtctgc gctgttgc aggtggagt gcagtgggt gatctcggt cactgcaagc tcggcctct ggttcaaat gatctcctg cctcagctc ccaagtagct gggataacag gcgcccacca ccgacccctg ctaattttt gtatttttga tcaagacgga gttccacct gttggccagg ctggtctcca actcctgccc tcaagtgat acgtctcagg tggcctctga aacaccactc ctttttgtgt ggtgcacgc cactgggaaa acgtctcagg atgtgtgggt gggagtcagc acttcacga tacttgcaa tcatcacctc atgtctgagc atgtgtgggt tcttctctcc ccaagaaaac ccatcgcca tcagcactca tgtctagtta caggacgggt tcttctctcc ccaagaaaac ccatcgcca tcagcactca ctcccaactc cccagcccc tggcaaccac aactcttccc aactctcagg attgacctgt tctgggcat tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaa MWGRLLWPL VLGFSLSGT QTPSVYDESG STGGDDSTP SILPAPRGYP GQVCANDSDT P Homo LELPDSSRAL ILGWVPTRLV PALYGLVLV GLPANGALW VLATQAPRLP STMLLMNLAT sapiens ADLLALALP PRIAYHLRGQ RWPFGAACL LATAALYGHM YGSVLLAAV SLDRYLALVH PLRALRGR RLALGLCMMA WLMAALALP LTLQRTFL ARSDRLCHD ALPLDAQASH WQPAFTCLAL LGCFLPLLAM LLCYGATLHT LAASGRYGH ALRLTAVVLA SAVAFFVPSN LLLLHYSDP SPSAWGNLYG AYVPSIALST LNSCVDPFIY YYVSAEFRDK VRAGLFQSP GDTVASKASA EGGSRGMGTH SLLQ </p>	
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517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	cggcagcagg gtcctgctct gtcacacagg ctggagtga gtggtgtgat ctggctcat	A	Homo sapiens
			cgtaacctcc acctccggggt tcaagtgtat tctcatgctt cagctcccc agtagctggg		
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[illegible]

358/448

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522

160388 Latrophilin- NP_055736.1

1

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Homo
sapiens

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				<p>SASNLWLYTS RCRDAGTELT LLLLLPPPLL GDQVGPCRSL GSRGRSSGA CAPMGWLCPS P</p> <p>GHLSPQGLT LPEEHPCLKA PRLRCQSKL AQAPGLRAGE RSPEESLGR RKRNVNTAPQ</p> <p>FQPPSYQATV PENQAPGTPV ASLRAIDPDE GEAGRLEYTM DALFDSRSNQ FFLDPVTGA</p> <p>VTAAELDRE TKSTHVRVT AQDHGMPRRS ANILYRLLE GSGGSPSEVF EIDPRSGVIR TRGPVDREEV</p> <p>ESYQLTVEAS DQGRDPGPRS TTAAVFLSVE DDNDNAPQFS EKRYVVQVRE DVTPGAPVLR</p> <p>VTASDRDKGS NAVHYSIMS GNARGQFYLD AQTGALDWS PLDYETTKEY TLRVRAQDGG</p> <p>RPPLSNVSGL VTQVLDIND NAPIFVSTPF QATVLESVPL GYLVLHVQAI DADAGDNARL</p> <p>EYRLAGVGHF FPFITNGTG WISVAAELDR EEVDFYFSGV EARDHGTAL TASASVSTV</p> <p>LDVNDNPTF TQPEYTVRLN EDAAVGTSV TVSAVDRDAH SVITYQITSG NTRNRESITS</p> <p>QSGGLVSLA LPLDYKLERQ YVLAVTASDG TROTAQIW NVTANTHRP VFQSSHVTN</p> <p>VNEDRPAGTT VLISATDED TGENARITYF MEDIPQFRI DADTAVTTQ AELDYEDQVS</p> <p>YTLAITARDN GIPQKSDTY LEILVNDVND NAQFLRDSY QGSVYEDVPP FTSVLQISAT</p> <p>DRDSGLNGRV FYTFQGGDDG DGDFIVESTS GIVRTLRLD RENVAQVLR AYAVDKGMPP</p> <p>ARTMEVTVT VLDVNDNPPV FEQDEFDFV EENSPIGLAV ARVATDPDE GTNAQIMYQI</p>	

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Homo sapiens

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696	128	5-HT1B Receptor	P28222	585	KQTPNRTGKRLTRAQLTD	Homo sapiens
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700	129	5-HT1D Receptor	P28221	577	IKLADSALERKRISAA	Homo sapiens
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703	129	5-HT1D Receptor	P28221	590	KAQEEMSDCLVNTSQIS	Homo sapiens
704	130	5-HT1E Receptor	P28566	815	RHLSNRSTDsQNSFASC	Homo sapiens
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726	134	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNNTIC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSLVHLIGLLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPAIVTDIFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKPDGVQNWPAALS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIDIEKRKFNQ	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRPQADQHSRMR	Homo sapiens
733	136	5-HT4 Receptor	CAA73107.1	656	CDDERYRPSILGQTVP	Homo sapiens
734	136	5-HT4 Receptor	CAA73107.1	657	RDAVECGGWESQCHPPATS	Homo sapiens
735	136	5-HT4 Receptor	CAA73107.1	2682	VTAKEHAHQIQLQRAGASSESRP	Homo sapiens
736	136	5-HT4 Receptor	CAA73107.1	2683	KSFRRAFLILCCDDE	Homo sapiens
737	136	5-HT4 Receptor	CAA73107.1	2684	VTAKEHAHQIQLQRAGA	Homo sapiens
738	136	5-HT4 Receptor	CAA73107.1	2685	KEHAHQIQLQRAGA	Homo sapiens
739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIQLQR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPREKQASLASPSLRIS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAVNFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASPAITWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAAKHKFPGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLSRLKHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLRAC	Homo sapiens
748	272	Adenosine A1 Receptor	AAA17544.1	8	CHKPSILTYAIFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AAA17544.1	9	NGSMGEPVIKCEFEKVISME	Homo sapiens
750	272	Adenosine A1 Receptor	AAA17544.1	10	NKKVSASSGDPQKYVGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AAA17544.1	11	NDHFRCCQPAPPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQKPPIDEDLPEEKAE	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEDLPEEKAE	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAA17544.1	303	MPPSISAFQAAYIGIEVU	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNLTGLPDVELLSHELKGV	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQGEPEKAAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIRERQIFRKIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTINES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDHSRTLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDRFYTFHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSNGGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGKKNPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MLLETQDALYVALELVIAAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIRNKLNLNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NMILTSEYHRNVFLSC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKIKKFETYLILKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFKTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRIWLAGLGC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPEEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADDIIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVTMRRTVVVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTIRSLAAGVKRERGKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEPVPPDERFCGITEEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRRLRMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTRSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMNSKELTLRIHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLRSQSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLLTEPESPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AAA93114.1	1246	RIPVGSRETFYRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AAA93114.1	1247	SSMPRGSARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AAA93114.1	1248	ESRGLKSLKTDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPNGLGPERISAGPG	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEPAPAGPRDLDALD	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVKPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPGATGIGTPAAGPGEE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRQRNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	IYKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGPGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMAASGRQRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRTKVWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AA02793.1	794	FRIMKEYSDEGHNVAC	Homo sapiens
804	600	Bradykinin B2 Receptor	AA02793.1	795	CTMQIMQVLRNNEMQKFKE	Homo sapiens
805	600	Bradykinin B2 Receptor	AA02793.1	796	CQDERIIDVITQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AA02793.1	797	CRSEPIQMENSMGTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEGEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVMVFVYSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRSLAPAPVGTCAPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPLRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAAARSSPAQPRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWTVVTGTYRSEVT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMTDESDT	Homo sapiens
825	692	Bombesin Receptor Subtype-3	AAA35604.1	20	SITNDESSSSVVSDNTNIN	Homo sapiens
826	692	Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCTSYPSVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLKSTLNIPTTEEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAQFLCCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	QRQPHSPNQTLISITNDE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNYNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SGGHNNLSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYVGWVHRLRQAQRPP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLPSPWRSSSESENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTEFDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLFGA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFGQDLFTHC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVYSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYPFLPSEKLETS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVIDTQDETVDNSY	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESNSNYLYESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTQSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLEVEVLQDCTFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDDYIGDNTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSESEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHRRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFKFLDLCG	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELIQING	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHQLKRCQNHNTKAIK	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SOIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSSYDYGENSEDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRLRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVNLDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRLQRPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMSGSDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRMTDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHQKRAKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRLD	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETPLDND	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQIGILEAAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DLNTPVDKTSNTRLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTFILLRTWSRRATRSTK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRRLKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELEESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVSTISDGGPGYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAKSLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMDE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAQPLDNSMGDSD	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSFKENEENIQC	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMILSGPQK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRIAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETEDGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHCHLAHWKCC	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEVPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNLSKKQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKQFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSKTSS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRPTRKPNTK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLNGQVREEYKRWITGKTKP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLNGQVREEYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRFC	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSITSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVEEEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQKRYDLHYRIAL	Homo sapiens
914	1103	Corticotropin releasing factor Receptor 2	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	1103	factor Receptor 2	Q13324	505	DPEGPVSYCNLTILDQIGICW	Homo sapiens
916	1103	Corticotropin releasing factor Receptor 2	LR43	507	ALLEQYCHTIMITLNLG	Homo sapiens
917	1240	Dopamine Receptor D1	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	1240	Dopamine Receptor D1	CAA41734.1	42	KAKPTSPSDGNATSLAETID	Homo sapiens
919	1240	Dopamine Receptor D1	CAA41734.1	43	CSQPESFKMSFKRE	Homo sapiens
920	1240	Dopamine Receptor D1	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	1241	Dopamine Receptor D5	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	1241	Dopamine Receptor D5	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	1241	Dopamine Receptor D5	P21918	1409	PNAVTPGNREVDNDEE	Homo sapiens
924	1241	Dopamine Receptor D5	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	1242	Dopamine Receptor D2	P14416	1403	KRSSRAFRHLRAPLKGNC	Homo sapiens
926	1242	Dopamine Receptor D2	P14416	1404	CTVIMKSGSFPVNRVR	Homo sapiens
927	1242	Dopamine Receptor D2	P14416	1405	KPEKNIGHAKDHPKIAK	Homo sapiens
928	1242	Dopamine Receptor D2	P14416	1406	GKTRTSKTMRRRLSQKKE	Homo sapiens
929	1243	Dopamine Receptor D3	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	1243	Dopamine Receptor D3	P35462	1399	CNSVRPGFPQQTLSDP	Homo sapiens
931	1243	Dopamine Receptor D3	P35462	1400	CQDTALGGPGFQERGGE	Homo sapiens
932	1243	Dopamine Receptor D3	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	1243	Dopamine Receptor D3	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	1244	Dopamine Receptor D4	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	1244	Dopamine Receptor D4	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	1244	Dopamine Receptor D4	P21917	1396	PPSPTPPAPRLPGDPC	Homo sapiens
937	1244	Dopamine Receptor D4	P21917	1397	PPQTTPPQTRRRRAKITGRE	Homo sapiens
938	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	222	DAYSAPFSAGANASGP	Homo sapiens
939	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	226	SRPREATARERTAC	Homo sapiens
942	1424	Duffy Antigen	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	1424	Duffy Antigen	AAC50055.1	1412	NDSFPDGDYDANLEAAAPC	Homo sapiens
944	1424	Duffy Antigen	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKKALGMGPGP	Homo sapiens
946	1451	EBV-induced Gene 2	AA35924.1	45	KQEAERTCMYEPNFEET	Homo sapiens
947	1451	EBV-induced Gene 2	AA35924.1	46	KLRTAKQNPLTEKSGVNNK	Homo sapiens
948	1451	EBV-induced Gene 2	AA35924.1	47	KSAPENSREMTETQM	Homo sapiens
949	1451	EBV-induced Gene 2	AA35924.1	48	CKGYKRKVMRMILKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRAIPLQLTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RSLAPAEVPGKDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRISPPPCQGPKEIKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EKQSLKQSLKFKKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSNLSNHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNIDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPQIEKFRFEEAERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLPVDITUR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSSTAFLPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKVAARATLRN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVVSSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKVAITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SVESAGYTVLRILPLVL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFTVTIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVAITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	58	QESKVTEIPSDLP RNAIELR	Homo sapiens
972	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	59	DVLEVIEADVFSNLPK	Homo sapiens
973	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	60	RNGHCSSAPRVTSGSTY	Homo sapiens
974	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	61	RGQRSSLAEDNESSYSRGFD	Homo sapiens
975	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2231	CHHRICHCSNRVFLCQE	Homo sapiens
976	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2232	LRVIQKGAFSGFGDLEK	Homo sapiens
977	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2233	LYVMSLLVLNVLAFFVIC	Homo sapiens
978	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2234	CNKSILRQEVDMTQARGQR	Homo sapiens
979	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2238	KLVALMEASLTYPSC	Homo sapiens
981	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2241	SFESVILWLNKNIGIQEIHNC	Homo sapiens
982	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2248	IHSLQKVLLDIQDNINIHT	Homo sapiens
983	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2250	KANNLLYITPEAFQNLPL	Homo sapiens
984	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2251	CYEMQAQIYRTIETSTVH	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1437	TNTPSSRKKMVRVRVVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1439	ARAIASDDQEKHSSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1893	PDTYILKTVTSASNNETYC	Homo sapiens
989	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	193	PRASNQTFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor Gair1	AAA50767.1	194	KKLNMISKSEASKKKTAG	Homo sapiens
992	1762	Galanin Receptor Gair1	AAA50767.1	195	GNSLVITVLARSKP	Homo sapiens
993	1762	Galanin Receptor Gair1	AAA50767.1	196	RKDSHLSDTIKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFDQRULER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPGNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHADLPVNDWDWHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTRELEAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGLPGAVHQNRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSGKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPWDRAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEKGKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNQSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDAKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFGSSYPGVQS	Homo sapiens

1017	1945	Opsin, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opsin, green-sensitive	NP_000504.1	1767	STRGPFEGPNYHIAPR	Homo sapiens
1019	1945	Opsin, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKL	Homo sapiens
1020	1945	Opsin, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDLSLG	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTPWDINEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRGDVWVASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQRKLSLTKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLQAAEEMPNTL	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSES	Homo sapiens
1027	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	835	VRKLEPAQGSLSHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKL	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPWFSQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQYVSGLHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYYRIFKVARDQAKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHISWKA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLRNASQLSRTQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTIKVFSESIN	Homo sapiens
1045	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1434	CESTVRKVSINKLYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1435	FAVRNPELMAINKDTIK	Homo sapiens
1048	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1436	CKRRAELYRRKDFSAYTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSRGPRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDGEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRVVYAVVQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTGHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLELRNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor	P41968	563	IVHSDYLTEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R)	Melanocortin 4 Receptor	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1035	NSTDIDAQSFTVNIDN	Homo sapiens
1064	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1022	ATEGNLSGPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1025	MNSSFHLHFLDLNLNAT	Homo sapiens
1068	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1036	QGSQRRLLGSLNSTPT	Homo sapiens
1070	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1038	EAGALVARAAVLQQILD	Homo sapiens
1071	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1039	ALRYHSIVTLPRARQA	Homo sapiens
1072	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1040	CQHAQGIARLHKRQRP	Homo sapiens
1073	3079	Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens	
1074	3079	Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens	
1075	3079	Melatonin Receptor type 1a	AAB17720.1	216	QVRQVRVKPDRKPKLKP	Homo sapiens	
1076	3079	Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens	
1077	3080	Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens	
1078	3080	Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens	
1079	3080	Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens	
1080	3080	Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens	
1081	3080	Melatonin Receptor type 1b	P49286	934	QEMAPQIPEGLFVTSY	Homo sapiens	
1082	3081	Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPDNQLAE	Homo sapiens	
1083	3081	Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens	
1084	3081	Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens	
1085	3081	Melatonin-Related Receptor	Q13585	754	HPKPAAADNPELSASHC	Homo sapiens	

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSLPESASSPAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMINKSGVRSVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNTFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKTLYNVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEYVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVLTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNYEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVLKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMINSRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLKYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGSGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGWDNGL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVWSKSNIRSV	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAAEAEEHFPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPISTLSHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTGTSDDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWGGDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAGSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLLDTNPSRAWVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELGYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLETNTSSSTKITYISYS	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMIMQRTHSQEYAH	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRTNHQLENLEAETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLQLQAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPPGSEVVIKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRP	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVSAVASNMRRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSKQTC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQNIIVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANQDPVPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHHRPEGPKEKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKPRPGRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSSGSATQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKEFASIARNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRAFRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDKPADT	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETEFTV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETNNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLTAASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSPQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTLIKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISLDNSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSVLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPEPIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRSF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLIEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHQRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRLDAIHSESVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQTVEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SESVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRLQRQGRVFHKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor Type 4	P50391	1071	CQQSAPLESEHLPLST	Homo sapiens
1172	3405	Neuropeptide Y Receptor Type 4	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Neuropeptide Y Receptor Type 5	Q15761	1072	MKKRNQKTTVNFUGN	Homo sapiens
1174	3406	Neuropeptide Y Receptor Type 5	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Neuropeptide Y Receptor Type 5	Q15761	1074	NLTLPSPKSGPQVKL	Homo sapiens
1176	3406	Neuropeptide Y Receptor Type 5	Q15761	1075	SFIKKHRRRYSKKTAC	Homo sapiens
1177	3406	Neuropeptide Y Receptor Type 5	Q15761	1076	PERPSQENHSRILPEN	Homo sapiens
1178	3406	Neuropeptide Y Receptor Type 5	Q15761	1077	CFEIKPEENSDVHELTV	Homo sapiens
1179	3408	Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Neurotensin Receptor Type 1	P30989	937	GEQNRSDGQHGAGGLVC	Homo sapiens
1182	3408	Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGGEHS	Homo sapiens
1183	3408	Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Oplate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSIAK	Homo sapiens
1188	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTQPMASPRLGTC	Homo sapiens
1189	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRQGIYE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTIDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHPLKAQNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKKSSRNIFSIVFVFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRRLGETSASKNSSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKPK	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGVVYPLKSLGRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVRKNKTITCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RALUYKDLDNSPLRRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRAIRKASRRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNINASEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIQNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMMAVVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLA VRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRRPHELLQKLTAK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGGRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKIMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKRKATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLTKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	248	KAKVQCELNITAGLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	249	ESLIMQDDPPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	251	EETKEDSGRQGGDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	763	LYSGATLDEAERLTEEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIQRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPELFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVVSRC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRIFYAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVVS	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTTKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRKERIEGLRKR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGEGMHEKSPYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKPKFK	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMNERTSMNERE	Homo sapiens
1245	3846	Sphingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Sphingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIIAG	Homo sapiens
1247	3846	Sphingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIIAGME	Homo sapiens
1248	3846	Sphingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Sphingolipid Receptor Edg3	Q99500	1028	ERHLTMIKMRPYDANK	Homo sapiens
1250	3847	Sphingolipid Receptor Edg3	Q99500	1029	LVKSSSRKVANHNNSE	Homo sapiens
1251	3847	Sphingolipid Receptor Edg3	Q99500	1030	SPKVKEDLPHTDPSSC	Homo sapiens
1252	3847	Sphingolipid Receptor Edg3	Q99500	1031	CLVRGRGARASPIQPALD	Homo sapiens
1253	3847	Sphingolipid Receptor Edg3	Q99500	1752	REHYQYVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVVPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKSSKHALKVTIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVTKNLGC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLDYYSLESDLEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNHHTLCYNNFQKHHD	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SVRVSVVKLRNRPVPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTQSQADWDRARRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRIKA	Homo sapiens

1267	3851	Receptor 10 (GPR10)	AAA91630.1	78	GCI PSSLAQRARSPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISA AAVSSRPVAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVIGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	Fractalkine Receptor 1	AAA91783.1	85	SMNNRTVQHGVTISL	Homo sapiens
1273	3852	CX3C Chemokine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	Fractalkine Receptor 1	AAA91783.1	87	GRSVHVDFFSSSEQRSRHGS	Homo sapiens
1275	3853	CX3C Chemokine Receptor 1	NP_005281.1	1511	CLKNYDFGSSSTETSDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRLID	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNTC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVKVEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRSRLRRKRSFRSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSREKAKKMI/AASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVTRTMNIVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMSSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTIKDSIYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1152	ALLFSQDGGQREGQRR	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1154	ALLDTADLLAARERC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1155	RRLRGSSPSGPQPRRG	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KSGRRHILSAGPHALIQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVLPLHLFARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDDVSMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNQSSHPFCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQITANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNITVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERRERQKRVRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLC/MCH1	AAH01736.1	1532	CAPGQGGRRWRPLQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGSGCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMSSVAPASQRSIRLRTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNAQTADERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPGGQDSQCCEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLSRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TWCLLGDAHSPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLTCGVVYPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGGSFSIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSYRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELDRDYNHTCFEKEPME	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGSVSTERQEKAKIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLLRFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLEPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVPSVTSLLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVWRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRCQCVLVPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RLHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRNLRQLITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSQDNGTGHNAIFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRLSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSILRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWLSLRQRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMTGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTRGAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHKKGHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNNHKKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKDQI	Homo sapiens

1345	3870	Receptor OGR1 G Protein-Coupled Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDARLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPÉASG	Homo sapiens
1348	3921	Prostaglandin D2 Receptor	P43119	1188	CRMYRQQKRHQGSLGPRPT	Homo sapiens
1349	3921	Prostaglandin D2 Receptor	P43119	1189	CFTQAVAPDSSEMGD	Homo sapiens
1350	3921	Prostaglandin D2 Receptor	P43119	1190	ASGRDRPRAPSAPVGKEGSC	Homo sapiens
1351	3921	Prostaglandin D2 Receptor	P43119	1191	SAWGEQVEPLPTQG	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTTSVEKGN SAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRILQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREASQPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEAEIDLRLR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLLRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTPLHAAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDMVMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGVDVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKAWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3 Prostaglandin E2 Receptor EP3	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	Prostaglandin E Receptor EP4	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	Prostaglandin E Receptor EP4	P35408	383	EREVSKNPDLQAIRIAS	Homo sapiens
1371	3927	Prostaglandin E Receptor EP4	P35408	384	DSQRTSSAMSGHSRSFSIRE	Homo sapiens
1372	3927	Prostaglandin E Receptor EP4	P35408	385	RTLRISETSDSSQGQDSE	Homo sapiens
1373	3928	Prostaglandin F2-alpha Receptor	P43088	1046	ILMKAYQRFRRQKSKAS	Homo sapiens
1374	3928	Prostaglandin F2-alpha Receptor	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Prostaglandin F2-alpha Receptor	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Prostaglandin F2-alpha Receptor	P43088	1049	CFYNTEDIKDWEDEFY	Homo sapiens
1377	3928	Prostaglandin F2-alpha Receptor	P43088	1050	RVKFKSQQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTRSSKGRSLUGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYVWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNINLAKPTLPKIFR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLHVKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCCHDVHNTCESSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGTPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEGKTNESSLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYTLKPEVNNESFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFYIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYLSLHG	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGSDDGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGDNRNFTSFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLGKSGHLQVNTT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLGELSREQTGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRLTSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MRKLRTQETRGNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDAVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKSE	Homo sapiens
1410	4481	Somatostatin Receptor Type 2	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type	P30874	1001	KQDKSRLNETTETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type	P30874	2276	DMADEPLNGSHITWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type	P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type	P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type	P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type	P32745	2626	QPGTSGQERPPSRVA	Homo sapiens
1417	4483	4	Somatostatin Receptor Type	P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type	P31391	1008	CLLEGAGGAEELDY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type	P31391	2627	KMRAVALRAGWQQR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type	P31391	2631	CRAVLVDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type	P31391	2633	CLVGLVGNALVIFVL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type	NP_001044.1	2637	SLPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type	NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type	NP_001044.1	2643	RVAKLASAAAWWVLSLC	Homo sapiens
1426	4552		Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYKV	Homo sapiens
1427	4552		Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDYEGLMKSTRYL	Homo sapiens
1428	4552		Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETITSTVGAHEE	Homo sapiens
1429	4552		Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSLDLTSNC	Homo sapiens
1430	4687		Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687		Thrombin Receptor	P25116	2582	AVANRSKSRALFLSAAVFC	Homo sapiens
1432	4687		Thrombin Receptor	P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKYEPFWE	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLNCNCKQKPTE	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVVALNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDIIVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDIDFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAIPII	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYQSVIYPFSLQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLTKNSYVGKNRIIRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPITWLQGGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDITRPEEFHDYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPLRALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HITRTIYYLARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAALGEGNGPPDRVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEQ	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQIFYSNRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATPWLGRLDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AAA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AAA65687.1	269	ESPRDLADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSSGAHWNRPLVAVAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLFREIHASLVGPSEK	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRTPTNAIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSMTMIVA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRAMLAMFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSTDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRVVDREQEENGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDGDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAGAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKKQRAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWVSSSGGAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFPTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLTKC	Homo sapiens

1481	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	979	CTDDNLRGADMDIVHPQER	Homo sapiens
1482	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	980	SRSETGSTISMSSLERR	Homo sapiens
1483	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1102	KATKAYNQQAQRMTWG	Homo sapiens
1485	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1103	KTLHAGGFQKHRSLK	Homo sapiens
1486	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1104	SLKFRKNFWKLVKDIGC	Homo sapiens
1487	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1105	KSSDNSKTFSAHNV	Homo sapiens
1488	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	66	ERHRVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	67	RRRVQIRMAEHVCHPRYRE	Homo sapiens
1490	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	68	NAAVYSCRDAEMRRTRFR	Homo sapiens
1491	6204	Inhibitor 3	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	39	QQEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	40	RSQKEGLHYTCSSHFPYSQ	Homo sapiens
1495	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	309	MDYQVSSPIYDINYYTSEPC	Homo sapiens
1496	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1092	EDEYDVLIERGELESDEAEQC	Homo sapiens
1497	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1094	MRKTLRFREQRYSLFKLVFA	Homo sapiens
1499	6363	Inhibitor 3	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1096	RSNTPLQPRGQSAQGTSTRE	Homo sapiens
1500	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	127	GPGNSARDVLRARAPREEQG	Homo sapiens
1501	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	129	DPGGPRRGNSTNRVRLKNP	Homo sapiens
1502	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	130	LRQSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	131	PRGAVISGRSQEQSVKTVPG	Homo sapiens
1504	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	1781	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1505	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	1806	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1506	6536	Inhibitor 3	Putative Neurotransmitter Receptor (PNR)	NP_005293.1 O14804	319	TDWVETRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPTQR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAQQGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLIRSPGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MIRVLNVDAARRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGLALYRFSIRKQR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRIRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASRRQSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEFQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMID	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAAAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDLLHMEAAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAQIMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGLDLEQGLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSLQSRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRTSTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYVSVLYPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLLPPLGNTPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELQTKV/PKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQKKAQNFTSILAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKV/DKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIVIRLKRNNNMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDYEYIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHLPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

1555	9834	Type 1 Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASNISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Frizzled-2	NP_001457.1	1774	NHSEDGAPALLTAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPFHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRRPPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGQSFHGCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYSS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PPFLDAAPEPESLE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVYSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKFLYVVGRKKMMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEW/PNGELVRRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQIRWGRRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANNGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFLRSRTLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNTQGSVDCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMNRSQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSGGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWYE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMIRLGEPTISNE	Homo sapiens

1581	16599	Smoothened	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothened	NP_005622.1	2671	ANVTIGLPTKQIPDC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAYVW	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNGSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRRIQSPVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDLRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSFYDYDLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPYHRLTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGQGGRALK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEKKEWRTKLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEVVCRGEREVVGPKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRDLSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANILMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAASYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITVLS	Homo sapiens

1604	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1524	QGTLEILYPDAHLAED	Homo sapiens
1605	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	Receptor LOC51210 G Protein-Coupled	ENSP00000164265	2030	SVVQLRRQRDPDFEWNEGLC	Homo sapiens
1607	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2032	PAVGWHDTSERFYTHGC	Homo sapiens
1608	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	Receptor Ls19072 G Protein-Coupled	Q9UIZ3	1513	EHEPAGEEALRQKRAVATK	Homo sapiens
1610	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1514	ALRQKRAVATKSPTAE	Homo sapiens
1611	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1518	RLANNITGGWDSSGCVVEEGD	Homo sapiens
1613	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1519	CKQEKSSLFQISKSIG	Homo sapiens
1614	21632	Receptor KIAA0758 G Protein-Coupled	BAA96055.1	2164	CTAFQRREGGVPGTRPGSPG	Homo sapiens
1615	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2167	CPAERVANNRGDFRWPR	Homo sapiens
1617	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2171	QNPPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	Receptor Ls21632 G Protein-Coupled	LR29	425	PAARVHRPSCRCRYRD	Homo sapiens
1620	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	426	TLARPDATQSQRRTKTVRL	Homo sapiens
1621	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	427	RSKLVAASVPARDVRVG	Homo sapiens
1622	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	428	AQSERSAVTTDAIRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGSR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILTFEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVIIMRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDDGPGKNTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSRRKRKHNGSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAGKILYYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIYYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLTEEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAQRTGRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYYREPFVQRQRISR	Homo sapiens
1644	31568	G Protein-Coupled	O75963	334	HSSSTGDTGFSCSQDSGNL	Homo sapiens

1645	36534	Receptor RE2	O75473	1232	CQKLQKIDLRHNEIYKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	O75473	1233	NKGDNSSMDDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	O75473	1234	QDERDLEDFLLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	O75473	1235	ERGFVSVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	O75473	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2600	CKKINQLUSETAEVVTN	Homo sapiens
1652	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2610	ADDQTLLEGMMDDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2672	KYNQSLRRLRPLASQ	Homo sapiens
1654	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2673	KRYFAKEEFKFFQIC	Homo sapiens
1655	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2674	DGDRQKAMKRLRVPPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2103	RVRSGRVRSYSTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2105	CNNSVPGKEHPDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2106	APSKPGLPKPQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2135	AASKPKSTPAVIQGPSGKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	O00406	1261	KRSELNKTQLTSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	O00406	1262	GNASTERNGVSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	O00406	1263	CRIKKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	O00406	1264	DFTGKQHMFMNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNNPASAGNQTQKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVMVNVSSLSLNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKSFVHNNG	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLITPRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELLSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFIUG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVLTILPRVTIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEIDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKGIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATQNRFRFQFTQNGKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEYVRLFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLNVNHRRTHTLTKLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFTLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSYELQQLQSSMKRSNRRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQMDQDHSSDSWNNN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSV	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRLRSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARVGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTPQLKVVGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSGLGKDDLRPSSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRTKNSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAQQRPDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRITE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPSLTRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDITIFHKVLSSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRITVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQIIRSCEAKQQL	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1589	RIEPVYSYNSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNYNKLQHVQIRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVNIR	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKQKFFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFSELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQIRNPMDYVPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRAVPGHQAHAHANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLELTPTSLSTRVNR	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVAVPEDSGGKTL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQRKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVFFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKIYIVRNPNQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRINTNESGEEVT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTFDFDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNFTGMPPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFLFRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLETETLNKVVIAIALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTNISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFTVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREEESHRSRND CRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQRPRQKDN	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNTTEQVRSNGNEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEDRGVGGEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLNRNQGSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSGSGSNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2	P41587	1306	CGSFSRNGSEGALQFHR	Homo sapiens
		Vasoactive Intestinal				
1761	160055	Polypeptide Receptor 2	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAFAAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRDITAG	Homo sapiens
1765	160059	G Protein-coupled Receptor	NP_005294.1	1595	NPLVTGYLGRGPGLKTV	Homo sapiens
		GPR40				
1766	160059	G Protein-coupled Receptor	NP_005294.1	1596	GRYLGAFFPLGYQAFRRPC	Homo sapiens
		GPR40				
1767	160059	G Protein-coupled Receptor	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
		GPR40				
1768	160059	G Protein-coupled Receptor	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
		GPR40				
1769	160059	G Protein-coupled Receptor	NP_005294.1	1599	NASNVSFLYPNLGGSWRK	Homo sapiens
		GPR40				
1770	160059	G Protein-coupled Receptor	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
		GPR40				
1771	160059	G Protein-coupled Receptor	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
		GPR40				
1772	160189	G Protein-Coupled	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
		Receptor GPR54				
1773	160189	G Protein-Coupled	BAB55446	1927	ERAGAVRAKVSRLVAADV	Homo sapiens
		Receptor GPR54				
1774	160189	G Protein-Coupled	BAB55446	1928	RRPGPSDPAAPHAELHRLGS	Homo sapiens
		Receptor GPR54				
1775	160189	G Protein-Coupled	BAB55446	1929	GAPANASGCPGCCGANASD	Homo sapiens
		Receptor GPR54				
1776	160202	Adrenomedullin Receptor	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
		(ADMR)				
1777	160202	Adrenomedullin Receptor	O15218	391	NVLTACRLRQPGQPKRRHC	Homo sapiens
		(ADMR)				
1778	160202	Adrenomedullin Receptor	O15218	392	KDQTKAGTCASSSSCSTQ	Homo sapiens
		(ADMR)				
1779	160202	Adrenomedullin Receptor	O15218	484	KGDSQPAAAAPHPEPSLS	Homo sapiens
		(ADMR)				
1780	160204	G Protein-Coupled	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens
		Receptor RTA				

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSTPNTVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNCGCTHCYLAFNDS	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLLREGVWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMLKEIYHPRMLLI	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEFFLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMINSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAAVSLRLQHRGRRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRRITSIA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPGPRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRTQTVTTWVHLALSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFTVLSIAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPLNRLSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFSPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYVW/DVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHLLGRRDHTQDWVQQK	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSIFFLQISM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMINIRAHPRSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR55 G Protein-Coupled	AAC52028.1	2	AQRPTDVGQAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYITSKLSDANC	Homo sapiens
1815	160221	Receptor GPR35 G Protein-Coupled	LR6	335	FPPVLDGGGDDDEDAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARRLLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPKPKQEDGQPSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADEQSAEAAALVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAESQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQQSRSKRGTEDEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPKDGGTPDSGQELR	Homo sapiens
1830	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Spingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLFRMIRE	Homo sapiens
1833	160225	Spingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Spingolipid Receptor Edg6	CAA04118.1	72	RLVQASGQKAPRPAAR	Homo sapiens
1835	160225	Spingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASTDSSLRPRD	Homo sapiens
1836	160225	Spingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGQKAPRPAAR	Homo sapiens
1837	160225	Spingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPRDSFRGSRSLFRM	Homo sapiens
1838	160225	Spingolipid Receptor Edg6	CAA04118.1	1916	RSLSRMIREPLSSISVR	Homo sapiens
1839	160225	Spingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDETVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHNSGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRQRKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTILCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWKSNDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVIKILKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPADILPAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDELSVDDSDKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRLPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHVNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1922	MMRKKAKFSURENPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1924	CEQTEEEKKLRHLALFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1925	KKRVGDGVSRLTIHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDTNSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNGEQWHVVSRRKKQKLIK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPQQLVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDRKNIN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13	NP_076403.1	1623	ARVPYTHSQTNNTKDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENIHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRRLALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQTFRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQSRPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1213	CELKRDQLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFGRTKGRSGEAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLEETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAEKLK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHSEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNVNMHKRERTC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSYDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELTGHLVPHHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDTPEGVNSLDP SHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSGPSYIPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKW PQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQLQELKPSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYQPQKKVKSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDM EEDL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDSLNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTADAANVTSTLENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDTLDRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKONENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963)	Platelet Activating Receptor	O14626	1226	ETFASPKETKAQKEKLR	Homo sapiens
1910	161024	Homolog (H963)	Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRR	Homo sapiens
1911	161024	Protein A	Protein A	NP_062832.1	1691	EDARGKRSSLDGSESAC	Homo sapiens
1912	161024	Protein A	Protein A	NP_062832.1	1692	RTWVEQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	Protein A	NP_062832.1	1694	RRLSHDETNIESTPRE	Homo sapiens
1915	161024	Protein A	Protein A	NP_062832.1	1695	GGPPEYLGQRHRLDEED	Homo sapiens
1916	161024	Protein A	Protein A	NP_062832.1	1696	REEITFIDETPLSP	Homo sapiens
1917	161024	Protein A	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSP	Homo sapiens
1918	161214	Galanin Receptor GalR3	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRARFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	Galanin Receptor GalR3	AAC35944.1	205	RARRALRRVRPASSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRAFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCGRSLSCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDLNLIDEALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	G Protein-Coupled Receptor GPR66	LR20	395	IGLRLRRERLLMQEAKGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	G Protein-Coupled Receptor GPR66	LR20	396	RGSAARSRYTCLRQQH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	Purinergic Receptor P2Y10	O00398	859	CFLLKPRFARDWKRRYD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	Purinergic Receptor P2Y10	O00398	860	PFPIRLSTDNLNNKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	Purinergic Receptor P2Y10	O00398	863	LRQPPMAFQGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLLDDVDYEEAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYYPPEMSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYVVIIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEGKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLISSPAPTASPPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSSPFLMAKPPQKDEKNITKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHLSSVTYVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQQGDTIRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRLDGAREAAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSTQRRRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPRSLKRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTILFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRRAQPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPHTSGIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERRPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGMTKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDVTMKALALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSURLPPEPERPRFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHLNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KKDKSLEADEGNANIQRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQARNIFLTEC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRIRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKQNLRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGLKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKVPSPESPASIEPK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQIPGPSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSELSRSTMTVTS	Homo sapiens

1978	189895	Receptor GPR61	AAK12637.1	1687	SSGAPQTTPHRTFGGK	Homo sapiens
1979	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1980	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLPSPKQE	Homo sapiens
1981	189900	Spingolipid Receptor Edg8	LRI	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1982	189900	Spingolipid Receptor Edg8	LRI	316	ALERSLTMARPGAPVSS	Homo sapiens
1983	189900	Spingolipid Receptor Edg8	LRI	317	DGFSGSSRSPQRDGLD	Homo sapiens
1984	189900	Spingolipid Receptor Edg8	LRI	318	CGRDPSGQQSASAAEASG	Homo sapiens
1985	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAEIGKLVQGEVS	Homo sapiens
1986	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1987	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYVLLHETWRFGAAC	Homo sapiens
1988	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGQGPVSD	Homo sapiens
1989	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1990	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVSDSSYQPSR	Homo sapiens
1991	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFREHLLQKKE	Homo sapiens
1992	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1993	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQIRNRQVATALPLE	Homo sapiens
1994	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSWKQYQC	Homo sapiens
1995	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFLAVGNPDQLQPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNAIRHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMSLQRPFGMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRTQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVYGESYGKEGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTYFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKLSKLAHADGDDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLLRTSDDTPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAGDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQIHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVTLTIQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQLVVKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTFLDGERERK	Homo sapiens
2013	190031	G Protein-Coupled	AAD55586.1	1729	EGKEGDYIRIPERLLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRNQNINQVKKDKKAAK	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVLFDALT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR58	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMMLRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDELQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPRAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDEESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLYNVKRSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPPS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAQALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDIQNSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	EX33 G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSYNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSPYVWWPNIWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFISIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFLFLWIHVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTITSLDTLTLP	Homo sapiens
2043	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHQPQAKATKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFFPIVYLIIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIYVFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLHVTSIRSAWILC	Homo sapiens

2051	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2257	CGIIWILIMASSIMLLDSGS	Homo sapiens
2052	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2260	VSHRKALTTIITLIIFLC	Homo sapiens
2054	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGL	Homo sapiens
2055	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2262	CKDRLHKALVTLALA	Homo sapiens
2056	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor	Cysteinyl Leukotriene CYSLT2	NP_065110.1	2264	HPQKAKTKCVFPVSVWLKE	Homo sapiens
2058	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	429	DSVSYEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	430	RESQGGQDESVDKSKTSHD	Homo sapiens
2060	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	431	PSAIYRRUHGEHFARLQC	Homo sapiens
2061	190437	Receptor	G Protein-Coupled Receptor C5L2	LR31	432	CHWALRESQGGQDESVDKSKS	Homo sapiens
2062	190437	Receptor	G Protein-Coupled Receptor C5L2	NP_060955.1	2818	MGNDSVSYEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	Receptor	G Protein-Coupled Receptor Ls190438	ENSP00000080322	2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	434	EADLGATGHRPRTELDDED	Homo sapiens
2065	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	435	RTCHRRQQQPAACRGFARVAR	Homo sapiens
2066	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	436	EERPGSFTPEPQTQLDSEG	Homo sapiens
2067	190484	Receptor	G Protein-Coupled Receptor Ls190484	LR33	437	RSDPTAQPLNPTAQPSQSD	Homo sapiens
2068	190595	Receptor	G Protein-Coupled Receptor SH120	NP_057418.1	1730	RNVTDIDLALERRLLQ	Homo sapiens
2069	190595	Receptor	G Protein-Coupled Receptor SH120	NP_057418.1	1731	KKKRMAMARRTIFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTSASGSENLTUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALEELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKTDVPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC58	O75205	411	VRLPFIKEKEKKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC58	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC58	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC58	O75205	414	SQPRMRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAQNAYSRHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSSHSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTGMRRKNTCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTLVQAIRITSYME	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQRLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPYPSPYSTHRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPRPQGGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLTASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRP AERKTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	2569	MDTGPDSQSYFSGNHWVFVSV	Homo sapiens

2092	190701	Receptor GPR41 & GPR42	AAF61299.1	1441	VAIYAYKKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVEEFPDSEGPTPE	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRTRGHRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRRFRKALKSLLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATTKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAAVSQN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGVVARQPAGDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLHRRSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAYVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVYGKLLLFYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	558	KDCIESTGDYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGSR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLLEKEQKNHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKKRSLGLTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMDE	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTLVMIKKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPIFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMILKIASMHSSQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTSPDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTISSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSFLLFLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLIYAWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSLRSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLSRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPLRPLRPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQTPE	Homo sapiens
2139	190749	G Protein-Coupled Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQTPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQTPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDNSTINLSLSTRVTLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRHRSSYFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLIKVTLMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFFSEWYLATSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINIYWSLWKRDHLSRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRLLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSV ALHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPGKTGTVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMVKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	481	TEVPDSAGTSNTHTSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	522	GDTAVERLNVFIMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	523	MSLAKRVMTGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	525	LHFIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPRL2)	NP_038475.1	1658	DELLEAPGDLETLRLQQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLDGLEDVLRGLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVVGVSIPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SGIRKLKTESEMIHLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGGLQDGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVLNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRITKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRRLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRRGGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMLFGKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RVLJAKEQARLISDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEIYWKHVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNINWSNDVRSALYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRRSVRSVLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLYSYG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVSV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSYVTRGVGKVPR	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPFKTSNPKNLLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDAAVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TLTSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSISCSIEHQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQPILKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSFFTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLILWIKDSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQIQSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDTSSTKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1666	RDVESKVLKALDPEQK	Homo sapiens
2203	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1667	KIQNDSVAIETQAITDNC	Homo sapiens
2204	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1668	CSEERKTFNLNVQMNSMDIR	Homo sapiens
2205	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1669	EEMDKKDDQVYLNQVVSAA	Homo sapiens
2206	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1670	SKSVTLTFQHVVKMTPSTK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2142	CLLLPTAVIVFSVVKIIAK	Homo sapiens
2208	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGLKATKKKSLEG	Homo sapiens
2210	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RLHTVTIVRKSSAVLE	Homo sapiens
2211	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSVVKIIAKV	Homo sapiens
2212	193524	Mucin-Like Receptor EMR3	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQLREVLTGHTDHYFSQD	Homo sapiens
2213	193524	Mucin-Like Receptor EMR3	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQTWGSERRRLGDTSKD	Homo sapiens
2214	193524	Mucin-Like Receptor EMR3	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRQSAARNSRGPPEQNE	Homo sapiens
2215	193524	Mucin-Like Receptor EMR3	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQNPNEELG	Homo sapiens
2216	193524	Mucin-Like Receptor EMR3	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTVVLRL	Homo sapiens
2217	193524	Mucin-Like Receptor EMR3	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHHFMDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEEAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CPRPSSGSHKEAYSERPGGLL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRLPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDDIKTKKELIVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTIKWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADTLP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLAMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDQASASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KKDYQYPKSLDILSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGDDINIDFNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SGNGNNPQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNIFLRSPLTHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIQRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1849	TIIRSRKKTVPDIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1907	RRATEKEINNMGNLTKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2089	CRIGDTSQVMPPLIVA	Homo sapiens
2244	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2094	TVSSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2095	CCLKPKQPGHSTQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2096	CISVANFSQSDGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSEATNSSNRVFC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MrgX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPESQVGDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFEEAYARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPSKVC	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKDLPENYNEAK	Homo sapiens
2265	194904	WO0034334-hFB41A	LR114	2011	SDYDMPLDEDEDVTNS	Homo sapiens
2266	194904	WO0034334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHRLLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNGSFPSKLRLMKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAGDAPLPSLEQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQITTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGAILDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	QETLPTLQPNQNMNTSEERQIR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNGECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITIVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIAKIETSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KULSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFL	Homo sapiens
2286	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2728	LINISHLIRKILVS	Homo sapiens
2288	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSQETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMKDLTYSSVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

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192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpha Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpha Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpha Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

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365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpha Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpha Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

505	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpa Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpa Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpa Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman